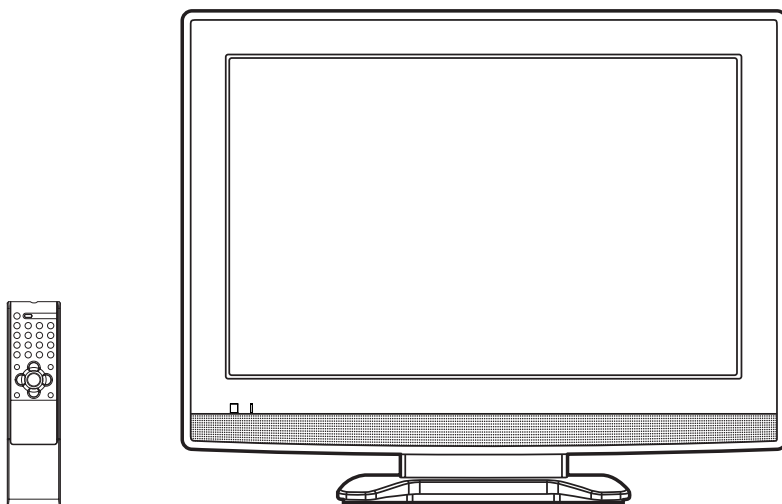


OWNER'S MANUAL

 **SANSUI**®

# 19" WIDE TFT LCD TELEVISION WITH DIGITAL TUNER HDLCD1900



### ATTENTION

If you purchase a universal remote control from your local retailer, please contact the remote manufacturer for the required programming code.

### Air/Cable MODE SELECTION

When shipped from the factory, the Tuning Band menu option is set to the "Cable" (Cable Television) mode. If not using Cable TV, set this menu option to the "Air" position.


IF CONTACT WITH CUSTOMER SERVICE IS REQUIRED  
PLEASE HAVE THE MODEL NUMBER READY PRIOR TO THE CALL  
**CUSTOMER SERVICE – 1-800-289-0980**

ORION WEBSITE

FOR INFORMATION ON OUR OTHER PRODUCTS, PLEASE VISIT OUR WEBSITE AT

**[www.orionsalesinc.com](http://www.orionsalesinc.com)**

Before operating the unit, please read this manual thoroughly.

	<b>CAUTION</b> RISK OF ELECTRIC SHOCK DO NOT OPEN	
<b>CAUTION:</b> TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		



The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

<b>WARNING:</b> TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.
<b>CAUTION:</b> TO PREVENT ELECTRIC SHOCK DO NOT USE THIS POLARIZED PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

**WARNING:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

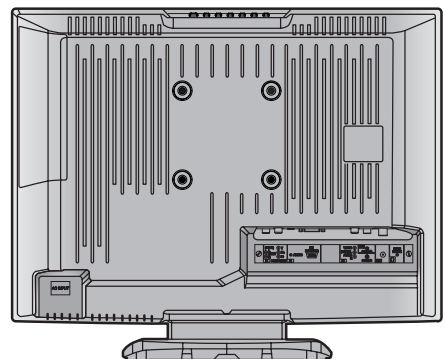
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**CAUTION:** Changes or modifications not expressly approved by the party responsible for compliance with the FCC Rules could void the user's authority to operate this equipment.

**The lamp(s) within this product contain mercury. Disposal should be in compliance with local, state or federal laws.**

**Location of the required Marking**

The rating sheet and the safety caution are on the rear of the unit.



# IMPORTANT SAFETY INSTRUCTIONS

---

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with a clean dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade and the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician to replace the obsolete receptacle.
- 10) Protect the power cord from being walked on or pinched particularly at plug, and the point where it exits from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug damage, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15) Apparatus should not be exposed to dripping or splashing, and objects filled with liquids, such as vases, should not be placed on the apparatus.
- 16) An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits, as contact with them might be fatal.
- 17) Do not overload wall outlets and extension cords, as this can result in a risk of fire or electric shock.
- 18) Do not push objects through any openings in this unit, as they may touch dangerous voltage points or short out parts that could result in fire or electric shock. Never spill or spray any type of liquid into the unit.

PORTABLE CART WARNING  
(symbol provided by RETAC)

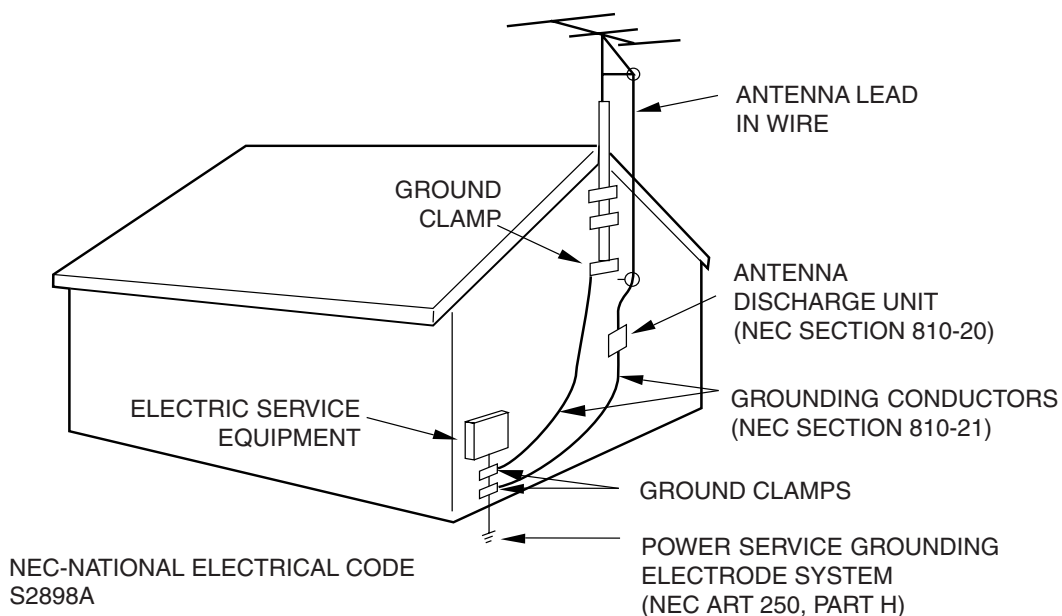


**S3126A**

# IMPORTANT SAFETY INSTRUCTIONS

- 19) If an outside antenna or cable system is connected to the unit, be sure the antenna or cable system is grounded to provide some protection against voltage surges and built-up static charges, Section 810 of the National Electrical Code, ANSI/NFPA 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

EXAMPLE OF ANTENNA GROUNDING AS PER THE NATIONAL ELECTRICAL CODE



- 20) When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
- 21) Upon completion of any service or repairs to this unit, ask the service technician to perform safety checks to determine that the unit is in proper operating condition.
- 22) When you connect the product to other equipment, turn off the power and unplug all of the equipment from the wall outlet. Failure to do so may cause an electric shock and serious personal injury. Read the owner's manual of the other equipment carefully and follow the instructions when making any connections.
- 23) Reduce the volume to the minimum level before you turn on the product. Otherwise, sudden high volume sound may cause hearing or speaker damage.
- 24) Do not allow the product to output distorted sound for an extended period of time. It may cause speaker overheating and fire.
- 25) This reminder is provided to call the cable TV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

# IMPORTANT SAFETY INSTRUCTIONS

## CONDENSATION

Moisture will form in the operating section of the player if the player is brought from cool surroundings into a warm room or if the temperature of the room rises suddenly. When this happens, player's performance will be impaired. To prevent this, let the player stand in its new surroundings for about an hour before switching it on, or make sure that the room temperature rises gradually.

Condensation may also form during the summer if the player is exposed to the breeze from an air conditioner. In such cases, change the location of the player.

## HOW TO HANDLE THE LCD PANEL

- Do not press hard or jolt the LCD panel. It may cause the LCD panel glass to break and injury may occur.
- If the LCD panel is broken, make absolutely sure that you do not touch the liquid in the panel. This may cause skin inflammation.  
If the liquid gets in your mouth, immediately gargle and consult with your doctor. Also, if the liquid gets in your eyes or touches your skin, consult with your doctor after rinsing for at least 15 minutes or longer in clean water.

**Possible Adverse Effects on LCD Panel:** If a fixed (non-moving) pattern remains on the LCD Panel for long periods of time, the image can become permanently engrained in the LCD Panel and cause subtle but permanent ghost images. This type of damage is NOT COVERED BY YOUR WARRANTY. Never leave your LCD Panel on for long periods of time while it is displaying the following formats or images:

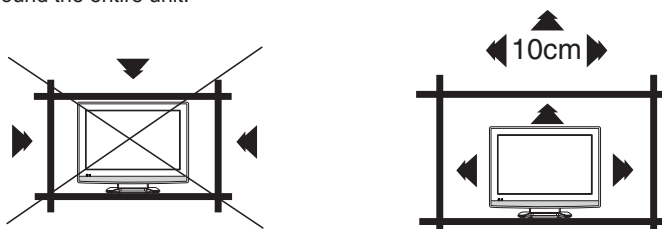
- Fixed Images, such as stock tickers, video game patterns, TV station logos, and websites.
- Special Formats that do not use the entire screen. For example, viewing letterbox style (16:9) media on a normal (4:3) display (black bars at top and bottom of screen); or viewing normal style (4:3) media on a widescreen (16:9) display (black bars on left and right sides of screen).

**The following symptoms are not signs of malfunction but technical limitation. Therefore we disclaim any responsibility for these symptoms.**

- LCD Panels are manufactured using an extremely high level of precision technology, however sometimes parts of the screen may be missing picture elements or have luminous spots.  
This is not a sign of a malfunction.
- Do not install the LCD Panel near electronic equipment that is susceptible to electromagnetic waves. Some equipment placed too near this unit may cause interference.
- Effect on infrared devices – There may be interference while using infrared devices such as infrared cordless headphones.

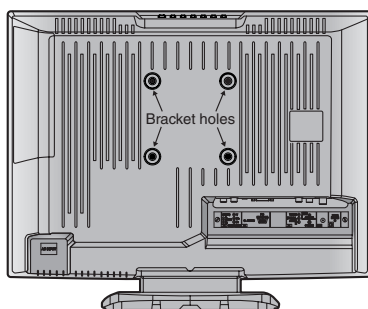
## SAFETY PRECAUTIONS

The unit emits heat when in operation. Do not place any covers or blankets on the unit, this may cause overheating. Do not block ventilation holes, or set up near radiators. Do not place in direct sunshine. When placing on a shelf leave 10 cm (4 inches) free space around the entire unit.



### Notes when mounting the LCD TV on a wall

- When installing the unit on a wall, allow at least 6 cm (2 1/2 inches) clearance between the rear of the LCD TV and the wall. Clearance of less than 6 cm (2 1/2 inches) will obstruct the vents and may cause the interior of the unit to overheat, resulting in damage to the unit.
- If the unit is to be mounted on the wall, contact the retailer where you purchased the LCD TV for advice, and have the equipment professionally installed. Incomplete or improper installation may cause injury to you, and/or damage to the LCD TV.
- Bracket holes: To attach a wall mounting bracket (not supplied) remove the screws and attached where indicated in the drawing below.



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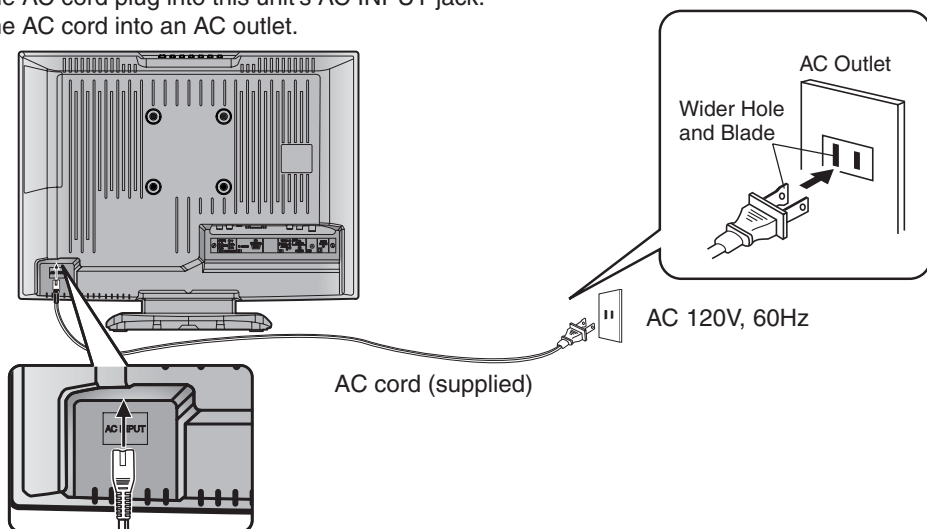
- **Integrated Digital Tuner** - You can view digital broadcasts without using a Digital TV Set-Top Box.
- **Closed Caption Decoder With Full Text Mode** - Displays text captions or full screen text on the screen for hearing impaired viewers.
- **Picture Adjustments Using The Remote Control** - The On-Screen display allows precise remote control adjustment of BRIGHTNESS, CONTRAST, COLOR, TINT and SHARPNESS.
- **Programmable TV Sleep Timer** - Operable from the remote control, the LCD TV can be programmed for up to 240 minutes to turn off automatically.
- **V-Chip** - The V-Chip function can read the rating of a broadcast program or movie content if the program is encoded with this information. V-chip will allow you to set a restriction level.
- **Digital Audio Jack (Coaxial)** - When a component with a built-in Dolby Digital decoder is connected, Dolby Digital sound can produce the effect of being in a movie theater or a concert hall.
- **S-Video/Component Video Jacks** - A VCR, DVD player, satellite receiver or other audio/video component can be connected to this unit.
- **Video Input Jacks** - This unit is equipped with 3 types of video input jacks. The component video in jacks and S-video in jack enable you to watch the DVD player or the video devices with high quality picture.
- **On-Screen 3 Language Display** - You can select one of 3 languages, English, Spanish or French for on-screen programming.

\* Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

## Power source

### TO USE AC POWER

1. Connect the AC cord plug into this unit's AC INPUT jack.
2. Connect the AC cord into an AC outlet.



### NOTE:

- Please make sure to insert the cord securely at both the LCD TV and the wall outlet.
- The AC cord has a grounding-type AC line plug. If the supplied AC cord does not match your AC outlet, contact a qualified electrician, do not defeat the purpose of a grounding plug.

### WARNING:

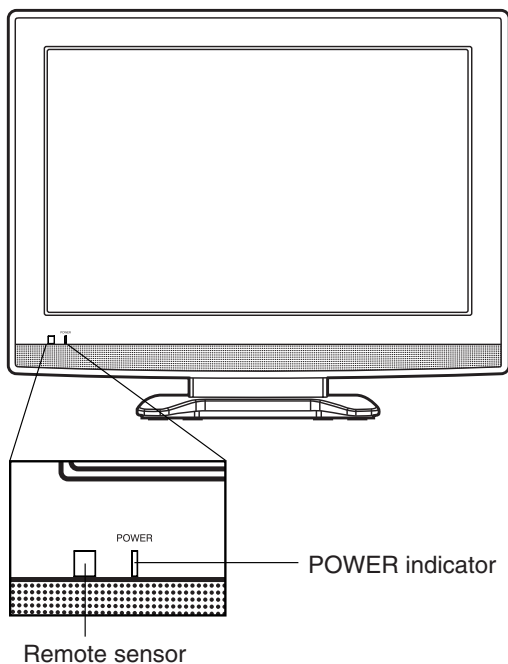
- DO NOT CONNECT THIS UNIT TO THE POWER USING ANY DEVICE OTHER THAN THE SUPPLIED AC CORD. THIS COULD CAUSE FIRE, ELECTRICAL SHOCK, OR DAMAGE.
- DO NOT USE WITH A VOLTAGE OTHER THAN THE POWER VOLTAGE DISPLAYED. THIS COULD CAUSE FIRE, ELECTRICAL SHOCK, OR DAMAGE.

### CAUTION:

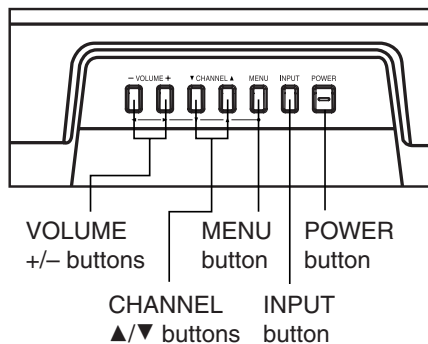
- WHEN THIS UNIT IS NOT USED FOR A LONG TIME, (E.G., AWAY ON A TRIP) IN THE INTEREST OF SAFETY, BE SURE TO UNPLUG IT FROM THE AC OUTLET.
- DO NOT PLUG/UNPLUG THE PLUG WHEN YOUR HANDS ARE WET. THIS MAY CAUSE ELECTRICAL SHOCK.
- IF YOU NEED TO REPLACE THE SUPPLIED AC ADAPTER OR AC CORD, THE SPECIFIED ONE IS RECOMMENDED. CONTACT CUSTOMER SERVICE AT 1-800-289-0980.

# Parts and functions

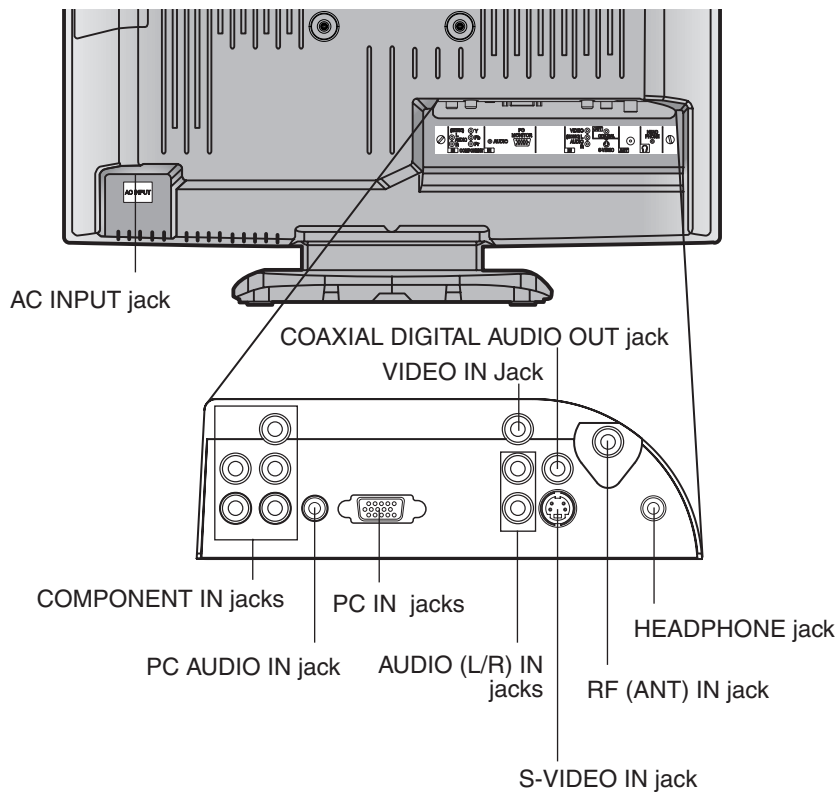
Front



Top



Rear side



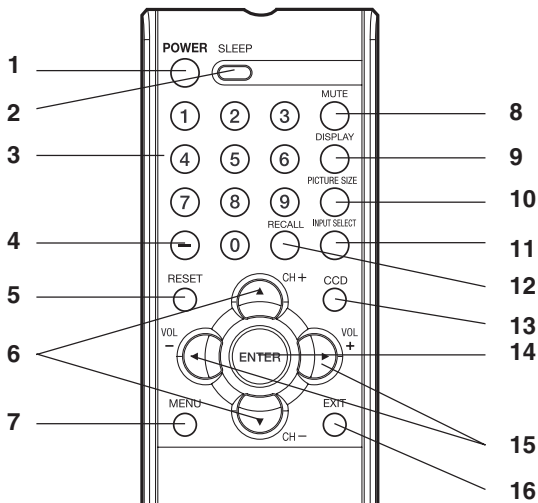
To display the menu screen.

Press MENU button to display the menu screen.

CHANNEL ▲/▼ buttons and VOLUME +/- buttons can be used to select the desired setting during the menu screen operations.



# Remote control



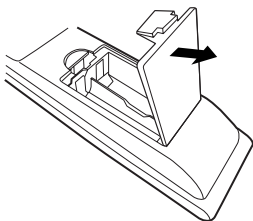
- 1. POWER Button** - Used to turn the power on/off to the LCD TV.
- 2. SLEEP Button** - To set the LCD TV to turn off after a preset amount of time, use the SLEEP button on the remote control.
- 3. Direct Channel Selection Buttons (0-9)** - Allows direct access to any channel of the LCD TV.
- 4. - Button** - This button is the “-” button used when selecting digital channels.
- 5. RESET Button** - Press to reset the On-Screen picture adjustments to their factory preset positions.
- 6. CH (CHANNEL) + / - / CURSOR ▲ / ▼ Buttons** - Used to operate the menu functions of the LCD TV, and to change the channels of the LCD TV.

- 7. MENU Button** - Use to display the On-Screen menu function.
- 8. MUTE Button** - To turn off the sound, press this button once. The LCD TV will be silenced and the symbol “MUTE” will appear on the screen. The muting feature can be released by pressing the MUTE button again or one of the VOL (VOLUME) + or - buttons.
- 9. DISPLAY Button** - When you press this button, the current information will be displayed on a screen. To remove the display from the screen, press this button again.
- 10. PICTURE SIZE Button** - Used to change the picture size.
- 11. INPUT SELECT Button** - Use to change the external input.
- 12. RECALL Button** - This button allows you to go back to the previous channel selected by just pressing the RECALL button. Press this button again to return to the channel you were watching.
- 13. CCD Button** - Used to set the closed caption “CC ON”, “CC ON MUTE” or “CC OFF”.
- 14. ENTER Button** - Use to enter or select information for On-Screen operations.
- 15. VOL (VOLUME) + / - / CURSOR ◀ / ▶ Buttons** - Used to operate the menu functions of the LCD TV. Press the ▶ button to increase, or the ◀ button to decrease the sound level.
- 16. EXIT Button** - Press to remove setup menu.

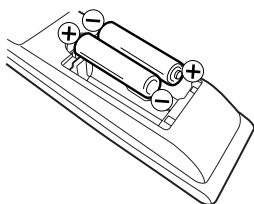
Before using the remote control, batteries must first be installed.

## HOW TO INSTALL BATTERIES

1. Open the battery compartment cover.



2. Install two “AA” batteries (supplied).



3. Replace the battery compartment cover.

Use two “AA” size batteries. The batteries may last approximately one year depending on how much the remote control is used. For best performance, it is recommended that batteries should be replaced on a yearly basis, or when the remote operation becomes erratic. Do not mix old and new batteries or different types.

## BATTERY PRECAUTIONS

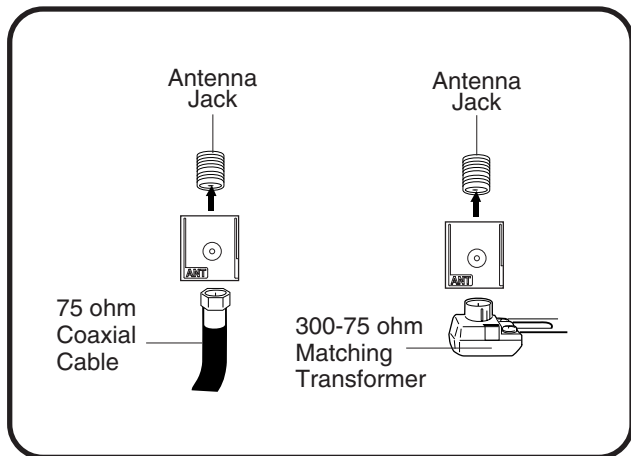
These precautions should be followed when using batteries in this device:

- Use only the size and type of batteries specified.
- Be sure to follow the correct polarity when installing the batteries as indicated in the battery compartment. Reversed batteries may cause damage to the device.
- Do not mix different types of batteries together (e.g. Alkaline and Carbon-zinc) or old batteries with fresh ones.
- If the device is not to be used for a long period of time, remove the batteries to prevent damage or injury from possible battery leakage.
- Do not try to recharge batteries not intended to be recharged; they can overheat and rupture. (Follow battery manufacturer’s directions.)

# Antenna connections

If you are using an indoor or outdoor antenna, follow the instructions below that correspond to your antenna system. If you are using a Cable TV service, see page 11 for Cable TV connections.

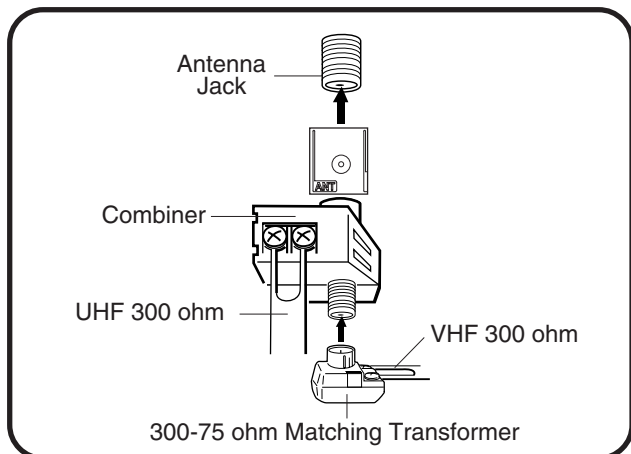
## Combination VHF/UHF Antenna (Single 75 ohm cable or 300 ohm twin-lead wire)



Connect the 75 ohm cable from the combination VHF/UHF antenna to the antenna jack.

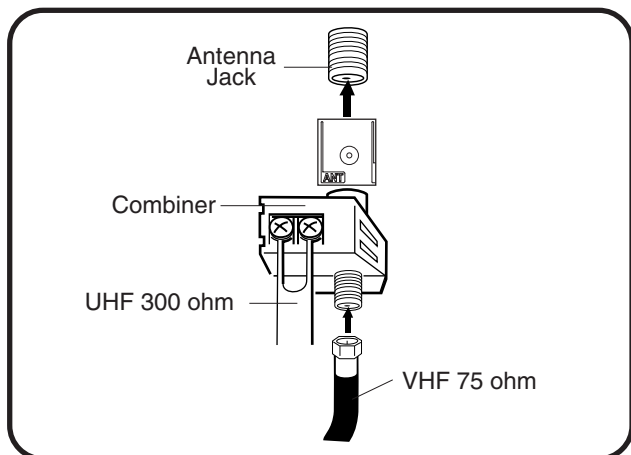
If your combination VHF/UHF antenna has a 300 ohm twin-lead wire, the use of the 300-75 ohm matching transformer may be necessary.

## Combination VHF/UHF Antenna (Separate VHF and UHF 300 ohm twin-lead wires)



Connect the UHF 300 ohm twin-lead wire to the Combiner (not supplied). Connect the VHF 300 ohm twin-lead wire to the 300-75 ohm Matching Transformer. Attach the Transformer to the Combiner, then attach the Combiner to the Antenna Jack.

## Separate VHF/UHF Antennas (75 ohm VHF cable and 300 ohm UHF twin-lead wires)

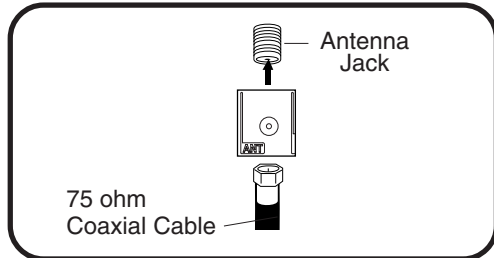


Connect the VHF 75 ohm cable and UHF 300 ohm twin-lead wire to the Combiner (not supplied). Attach the Combiner to the Antenna Jack.

# Cable TV connections

This TV has an extended tuning range and can tune most cable channels without using a Cable TV Converter box. Some cable companies offer “premium pay channels” where the signal is scrambled. Descrambling these signals for normal viewing requires the use of a descrambler device which is generally provided by the Cable TV company.

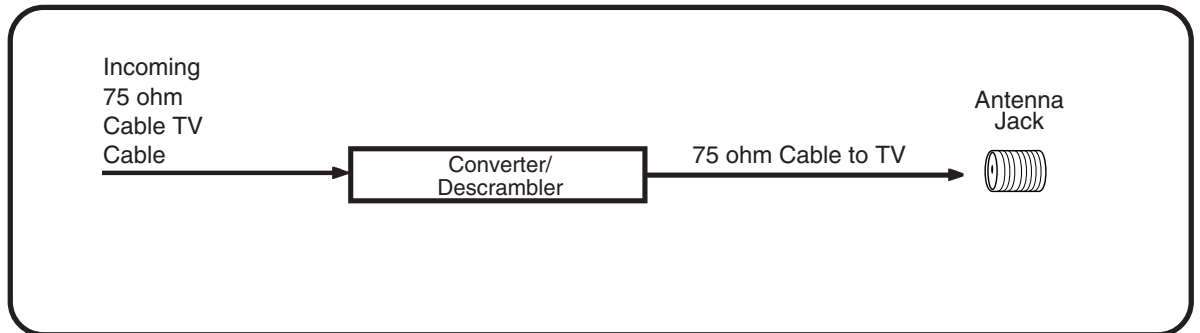
## FOR SUBSCRIBERS TO BASIC CABLE TV SERVICE



For basic Cable TV service not requiring a Converter/Descrambler box, connect the 75 ohm Coaxial Cable directly to the Antenna Jack on the back of the TV.

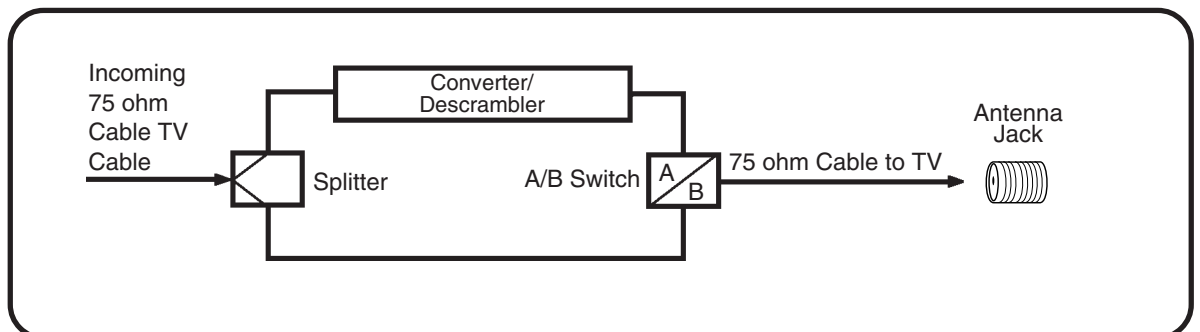
## FOR SUBSCRIBERS TO SCRAMBLED CABLE TV SERVICE

If you subscribe to a Cable TV service which requires the use of a Converter/Descrambler box, connect the incoming 75 ohm Coaxial Cable to the Converter/Descrambler box. Using another 75 ohm Coaxial Cable, connect the output jack of the Converter/Descrambler box to the Antenna Jack on the TV. Follow the connections shown below. Set the TV to the output channel of the Converter/Descrambler box (usually channel 3 or 4) and use the Converter/Descrambler box to select channels.



## FOR SUBSCRIBERS TO UNSCRAMBLED BASIC CABLE TV SERVICE WITH SCRAMBLED PREMIUM CHANNELS

If you subscribe to a Cable TV service in which basic channels are unscrambled and premium channels require the use of a Converter/Descrambler box, you may wish to use a signal Splitter and an A/B Switch box (available from the Cable TV company or an electronics supply store). Follow the connections shown below. With the switch in the “B” position, you can directly tune any unscrambled channels on your TV. With the switch in the “A” position, tune your TV to the output of the Converter/Descrambler box (usually channel 3 or 4) and use the Converter/Descrambler box to tune scrambled channels.



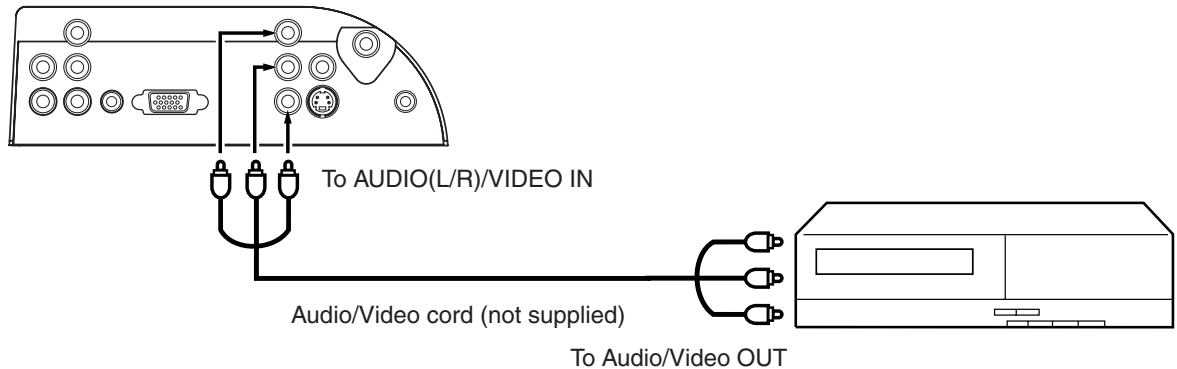
# Connections to other equipment

The exact arrangement you use to interconnect various video and audio components to the LCD TV is dependent on the model and features of each component. Check the Owner's Manual provided with each component for the location of video and audio inputs and outputs.

The connection diagrams below are offered as suggestions. You may need to modify them to accommodate your particular assortment of components. The diagrams are intended to show component video and audio interconnections only.

## To connect the LCD TV to a VCR

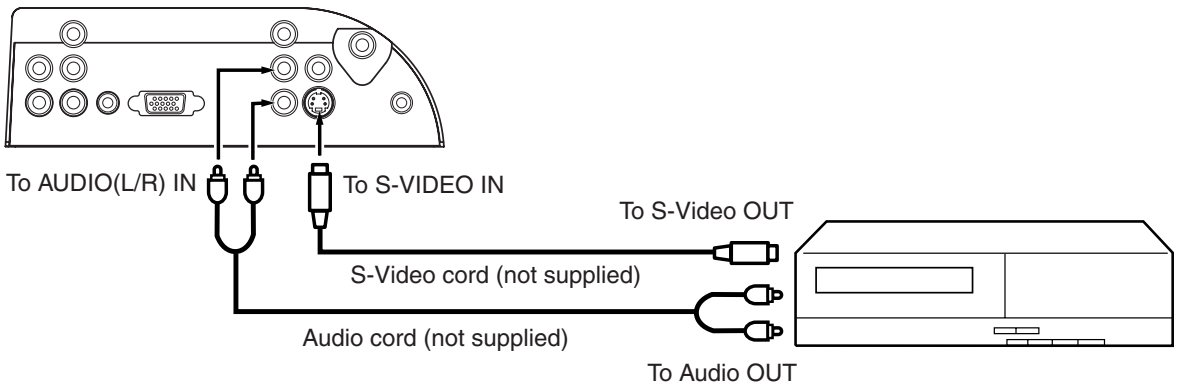
### Rear of the LCD TV



## To connect the LCD TV to a VCR with an S-Video cord

If you connect a VCR with a S-VIDEO cord to the S-VIDEO IN jack on the rear of the LCD TV, you must also connect the audio cords to the AUDIO(L/R) IN jacks on the rear of the LCD TV. The S-VIDEO cord only carries the video signal. The audio signal is separate.

### Rear of the LCD TV



### NOTE:

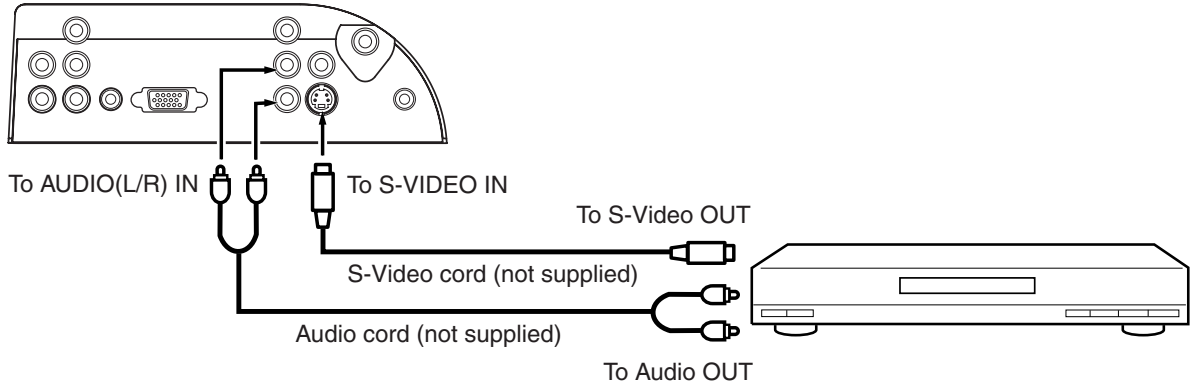
- When the S-video cord and the video cord are connected to each jack at the same time, the S-video cord takes precedence over the video cord.

# Connections to other equipment

## To connect the LCD TV to a DVD player/Satellite receiver

If your DVD player or Satellite receiver has a S-Video out jack, connect cords as shown.

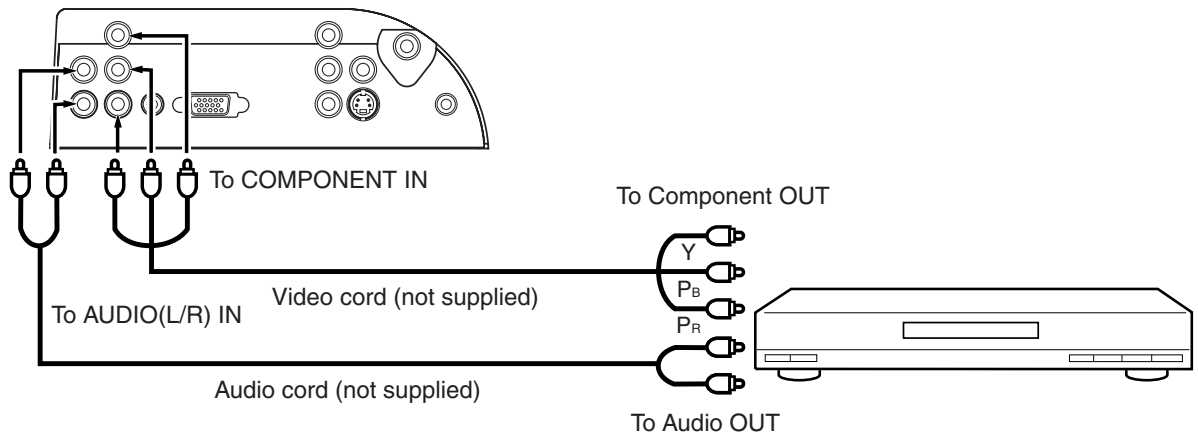
### Rear of the LCD TV



## To connect the LCD TV to a DVD player with component video

If your DVD player has component video out jacks, connect your LCD TV to a DVD player using a component video cord. It can greatly enhance picture quality and performance.

### Rear of the LCD TV



### NOTE:

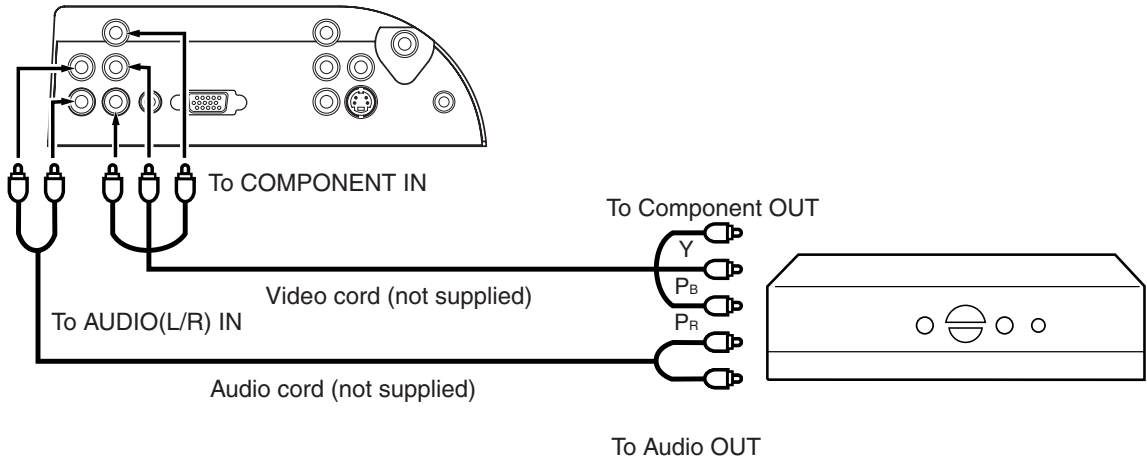
- Component Video inputs of the unit are for use with a device which outputs 480i/1080i interlaced signals and 480p/720p progressive signals.

# Connections to other equipment

## To connect the LCD TV to a DTV receiver/set-top box

If you connect a DTV receiver/set-top box, connect your LCD TV to a DTV receiver/set-top box using a component video cord.

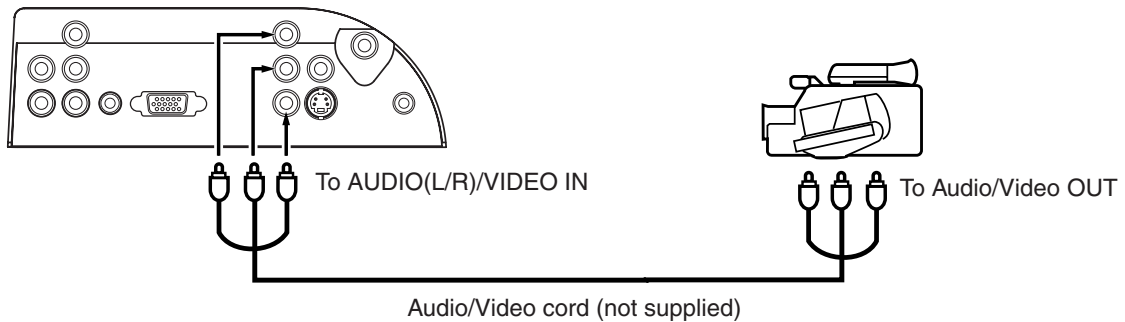
### Rear of the LCD TV



## To connect the LCD TV to a camcorder

To playback from a camcorder, connect the camcorder to the LCD TV as shown.

### Rear of the LCD TV

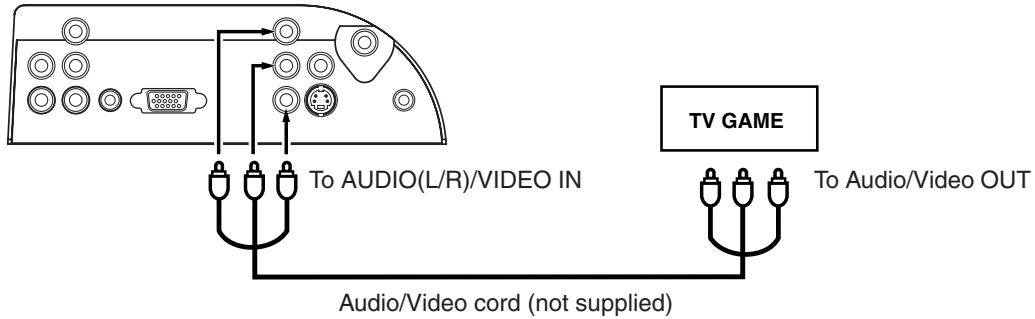


# Connections to other equipment

## To connect the LCD TV to a Game

The LCD TV can also be used as a TV device for many video games. However, due to the wide variety of signals generated by these devices and subsequent hook-up variations required, they have not all been included in the suggested connection diagrams. You'll need to consult each component's Owner's Manual for additional information.

### Rear of the LCD TV

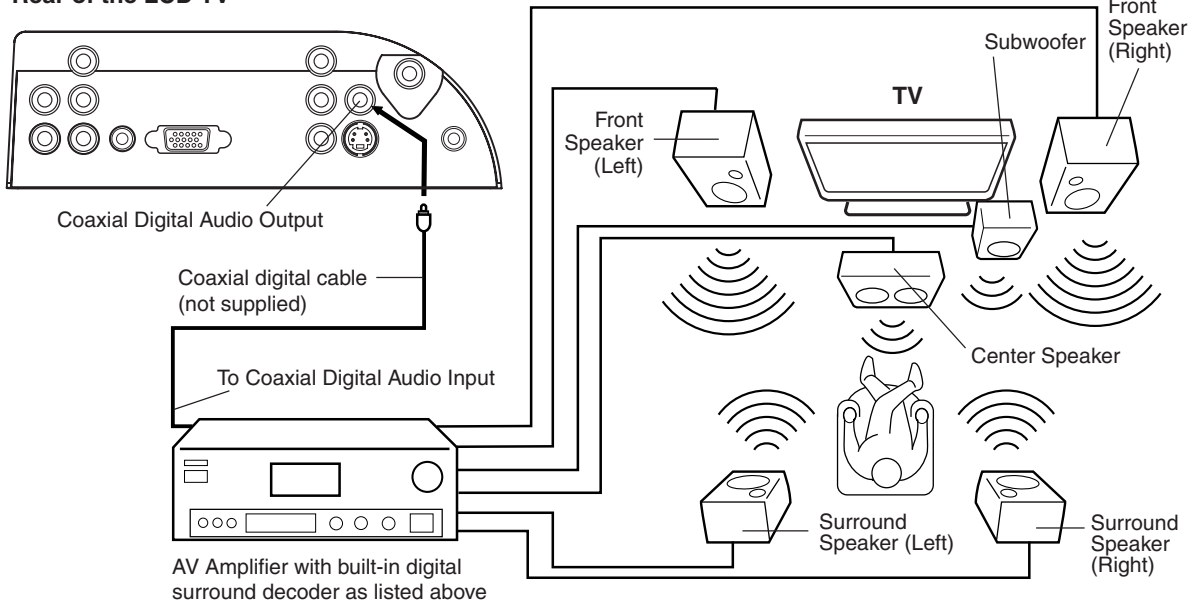


## Using an AV Amplifier with built-in digital surround

If you are using an Amplifier with built-in digital surround sound, you can enjoy various audio systems including Dolby Digital Surround audio that sounds just like the movie.

Connect an AV amplifier with built-in Dolby Digital decoder, or etc. as shown below.

### Rear of the LCD TV



### NOTE:

- This unit will not work in conjunction with DTS audio. There will be no sound output if connected to an AV amplifier with a built-in DTS decoder.
- Coaxial digital audio output is active only when receiving digital broadcasting, not when receiving analog broadcasting.

# Connections to other equipment

## To connect the LCD TV to a PC (Personal Computer)

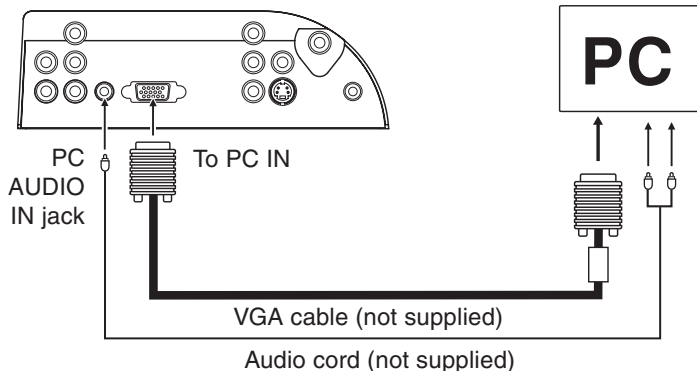
Before you connect this LCD TV to your PC, change the adjustment of your PC's Resolution and Refresh rate (60 Hz).

Connect one end of a (male to male) VGA cable to the video card of the computer and the other end to the VGA connector PC MONITOR on the back of the LCD TV. Attach the connectors firmly with the screws on the plug. In case of a Multimedia computer, connect the audio cord to the audio output of your Multimedia computer and to the AUDIO connector of the PC AUDIO IN jack of the LCD TV.

Press **INPUT SELECT** on the remote control to select PC mode.

Switch on the computer. The LCD TV can operate as the computer monitor.

Rear of the LCD TV



## Monitor Display modes

MODE	Resolution	Refresh rate
VGA	640x480	60Hz
VGA	720x400	70Hz
WVGA	848x480	60Hz
SVGA	800x600	60Hz
XGA	1024x768	60Hz
WXGA	1280x768	60Hz
WXGA	1280x720	60Hz

## To return to normal mode

Press **INPUT SELECT** again.

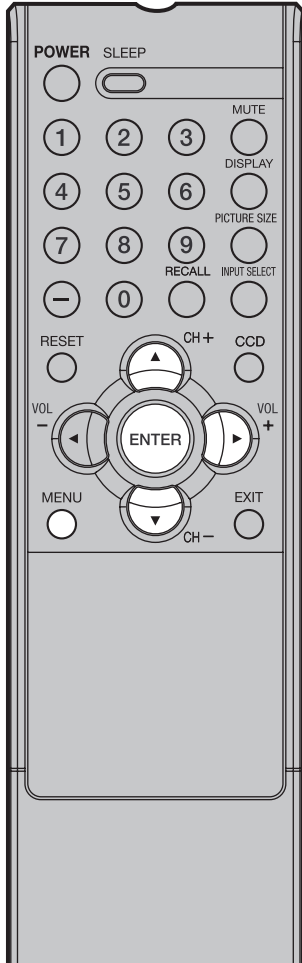
## NOTE:

- The on-screen displays will have a different appearance in PC mode than in TV mode.
- If there is no video signal from the PC when the unit is in PC mode, "NO SIGNAL" will appear on the TV-screen.



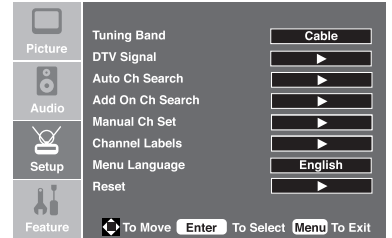
# Setting the language

You can choose from three different languages (English, French and Spanish) for the on-screen displays. Select the language you prefer first, then proceed with the other menu options.

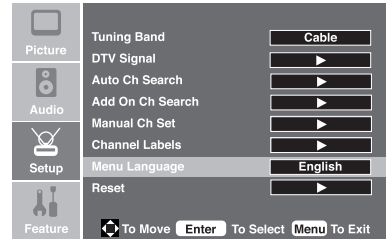


1 Press **MENU**. The menu screen will appear.

2 Press **▲** or **▼** to select "Setup" menu, then press **▶**.



3 Press **▲** or **▼** to select "Menu Language".



4 Press **▶** or **ENTER** to select the desired language: English (ENGLISH), French (FRANÇAIS) or Spanish (ESPAÑOL).

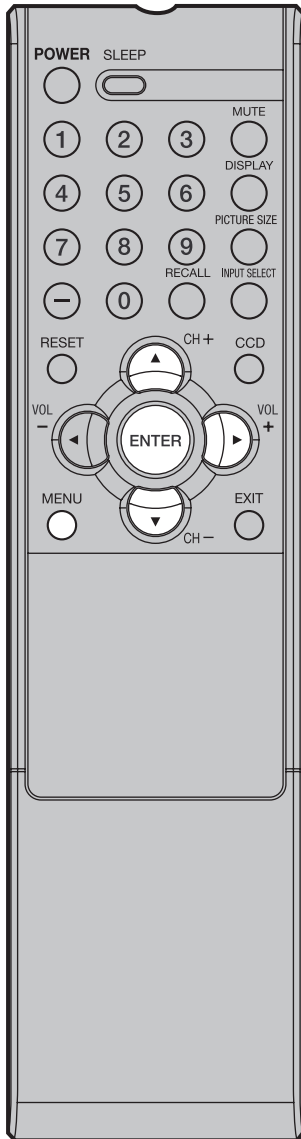
5 Press **MENU** to return to the normal screen.

## NOTE:

- If no buttons are pressed for more than about 30 seconds, the MENU screen will return to normal operation automatically.
- On this TV, there are setting menu for each external input. You can change the settings to fit your needs.  
(Some settings are commoditized. I.e., Audio settings, Parental control, NTSC CC, ATSC CC and Digital Closed Caption.)

# Memorizing channels

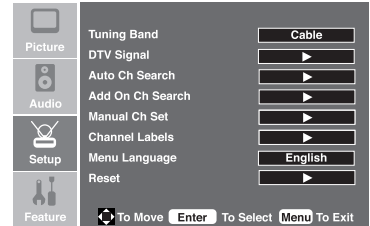
This TV is equipped with a channel memory feature which allows channels to skip up or down to the next channel set into memory, skipping over unwanted channels. Before selecting channels, they must be programmed into the TV's memory. To use this TV with an antenna, set the Tuning Band menu option to the Air mode. When shipped from the factory, this menu option is in the Cable mode.



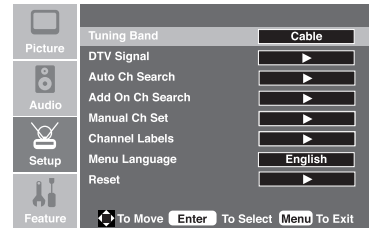
## Air/Cable selection

1 Press **MENU**. The menu screen will appear.

2 Press **▲** or **▼** to select "Setup" menu, then press **▶**.

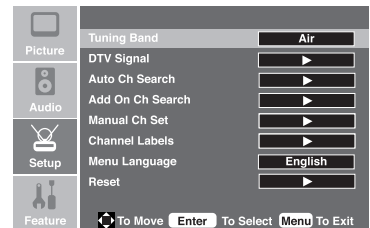


3 Press **▲** or **▼** to select "Tuning Band".



4 Press **▶** or **ENTER** to select "Air" or "Cable".

**Air** - VHF/UHF channels  
**Cable** - CABLE TV channels



5 Press **MENU** to return to the normal screen.

## CABLE CHART

The chart below is typical of many cable system channel allocations.

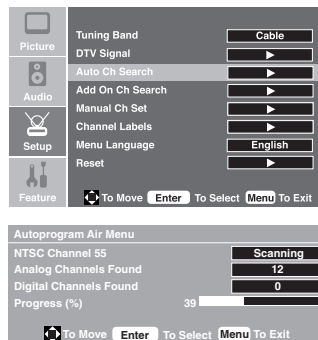
Number on this TV														14	15	16	17	18	19	20	21	22
Corresponding CABLE channel														A	B	C	D	E	F	G	H	I
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40					
J	K	L	M	N	O	P	Q	R	S	T	U	V	W	AA	BB	CC	DD					
41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58					
EE	FF	GG	HH	II	JJ	KK	LL	MM	NN	OO	PP	QQ	RR	SS	TT	UU	VV					
59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76					
WW	AAA	BBB	CCC	DDD	EEE	FFF	GGG	HHH	III	JJJ	KKK	LLL	MMM	NNN	OOO	PPP	QQQ					
77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94					
RRR	SSS	TTT	UUU	VVV	WWW	XXX	YYY	ZZZ	86	87	88	89	90	91	92	93	94					
95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112					
A-5	A-4	A-3	A-2	A-1	100	101	102	103	104	105	106	107	108	109	110	111	112					
113	114	115	116	117	118	119	120	121	122	123	124	125	01									
113	114	115	116	117	118	119	120	121	122	123	124	125	5A									

### NOTE:

- It may take a few seconds for a digital channel picture to appear on screen after being selected.

## Automatic channel search

- 1 Press **MENU**. The menu screen will appear.
- 2 Press **▲** or **▼** to select “Setup” menu, then press **▶**. Press **▲** or **▼** to select “Auto Ch Search”.



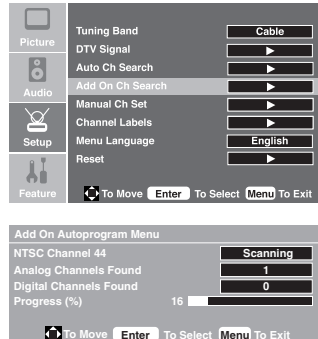
- 3 Press **▶** or **ENTER**. The TV will begin memorizing all the channels available in your area.

- It may take from 15 minutes to 30 minutes to complete memorizing digital cable channels. Depending on the reception condition, a BAR display may not advance for several minutes, please be patient.

## Add on channel search

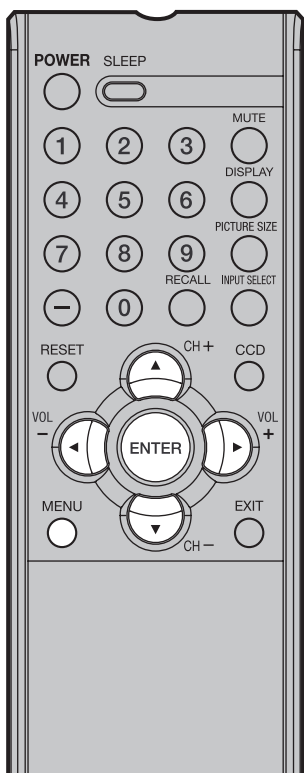
This feature searches only blank, unregistered channels.

- 1 Press **MENU**. The menu screen will appear.
- 2 Press **▲** or **▼** to select “Setup” menu, then press **▶**. Press **▲** or **▼** to select “Add On Ch Search”.



- 3 Press **▶** or **ENTER**. The TV will begin searching only blank, unregistered channels.

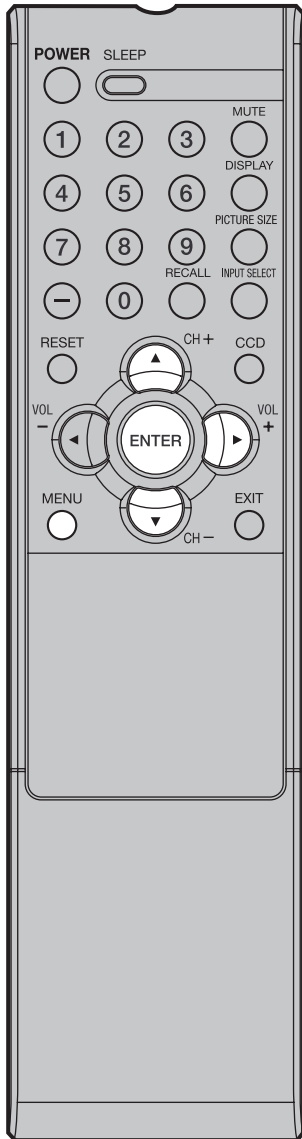
- It may take from 15 minutes to 30 minutes to complete memorizing digital cable channels. Depending on the reception condition, a BAR display may not advance for several minutes, please be patient.



### NOTE:

- Memorizing channels is best accomplished during evening “PRIMETIME” hours, as more stations are broadcasting digital signals. Memorizing channels can only be accomplished while a station is broadcasting a digital signal to set that channel into memory.
- If you are unsure of the digital channels available in your area, you may visit [www.antennaweb.org](http://www.antennaweb.org) to receive a list based on your address or zip code. Should you require further assistance you may call our toll-free customer service line at 1-800-289-0980.
- New digital channels may be added to your area periodically, it is recommended to perform the “Add On Ch Search” procedure regularly.

# Memorizing channels

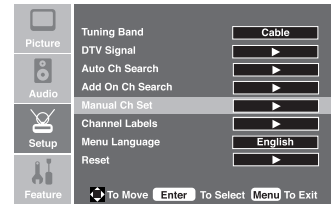


## Manual Ch Set

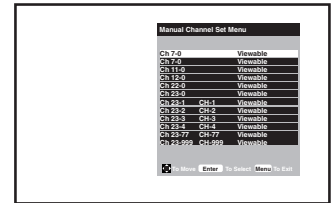
You can select the channel that you want to skip.

**1** Press **MENU**. The menu screen will appear.

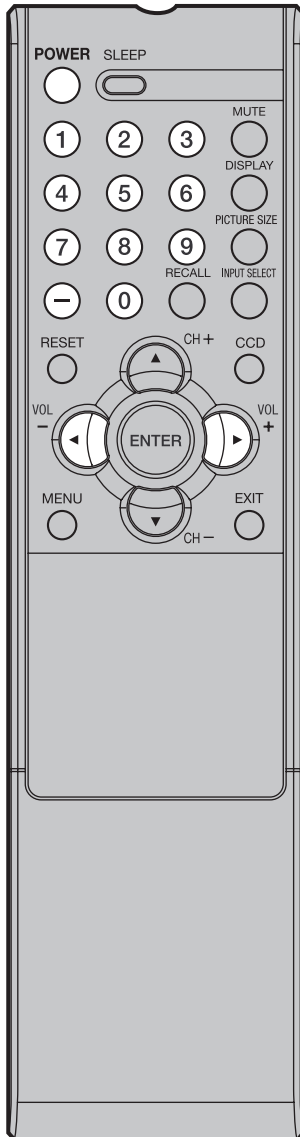
**2** Press **▲** or **▼** to select “Setup” menu, then press **▶**. Press **▲** or **▼** to select “Manual Ch Set”, then press **▶** or **ENTER**. Manual Ch Set menu will appear.



**3** Press **▲** or **▼** to select the channel that you want to skip, then press **ENTER**.



**4** Press **MENU** to return to the normal screen.

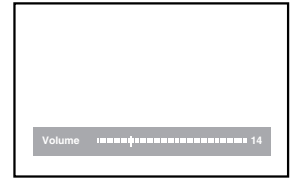


**NOTE:**

- If a channel with no broadcast is selected, the sound will automatically be muted.
- It may take a few seconds for a digital channel picture to appear on screen after being selected.

**1** To turn on the TV, press **POWER**.

**2** Adjust the volume level by pressing **VOL +** or **-**. The volume level will be indicated on the screen by white bars. As the volume level increases, so do the number of bars. If the volume decreases, the number of white bars also decreases.



**3** Set the Tuning Band menu option to the appropriate position (see page 18).

**Air** - VHF/UHF channels  
**Cable** - CABLE TV channels

**4** Press the **Direct Channel Selection (0-9, -)** buttons to select the channel.



**TO SELECT ANALOG CHANNELS**

- 1-9: Press **0** twice, then 1-9 as needed. Example, to select channel 2, press **0, 0, 2**.
- 10-99: Press **0**, then the remaining 2 digits. Example, to select channel 12, press **0, 1, 2**.
- 100-125: Press the 3 digits in order. Example, to select channel 120, press **1, 2, 0**.

**TO SELECT DIGITAL CHANNELS**

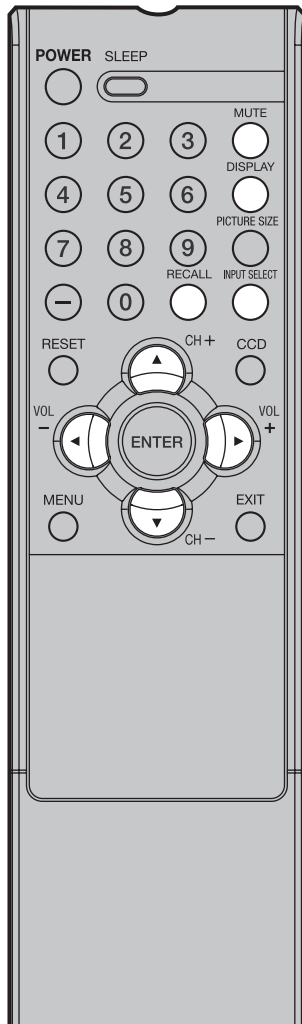
Press the first 3 digits, then press the **-** button, followed by the remaining 3 digits.  
Example, to select channel 015-001, press **0, 1, 5, -, 0, 0, 1**.

- If a channel is selected with only audio content, "AUDIO ONLY" will be displayed on the screen.
- If a channel is selected with a weak digital signal, "DIGITAL CHANNEL SIGNAL STRENGTH IS LOW" will be displayed on the screen.  
If the digital channel has the same analog channel, you may be able to watch the same channel with analog.
- If a channel is selected to which you have not subscribed, "DIGITAL CHANNEL IS ENCRYPTED" will be displayed on the screen.

**VHF/UHF/CABLE CHANNELS**

Air	Cable
VHF 2-13	VHF 2-13
UHF 14-69	STD/HRC/IRC 14-36 (A) (W) 37-59 (AA) (WW) 60-85 (AAA) (ZZZ) 86-94 (86) (94) 95-99 (A-5) (A-1) 100-125 (100) (125) 01 (5A)

# TV operation



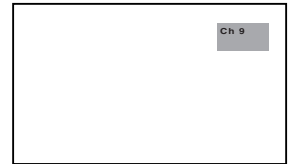
## To select the video input source

Press **INPUT SELECT** to view a signal from another device connected to your LCD TV, such as a VCR or DVD player. You can select ANT, Composite, S-video, Component or PC depending on which input jacks you used to connect your devices.

## CH +/-

Press and release **CH +/-**. The channel automatically stops at the next channel set into memory.

For proper operation, before selecting channels, they should be set into the memory. See pages 18 and 19 "Memorizing channels".

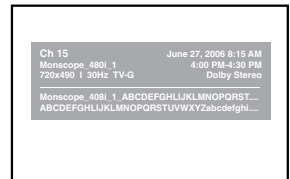


## DISPLAY

Press **DISPLAY** to display the current information on the screen.

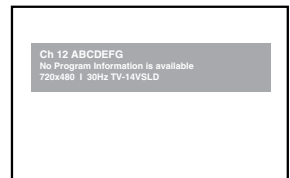
When the TV receives a digital signal, the digital information will appear.

- Channel number
- Broadcast program name
- Station name
- Program guide
- Audio language
- V-CHIP RATING



When the TV receives an analog signal, the analog information will appear.

- Channel number or VIDEO mode selected
- Channel label (if preset)
- Stereo or SAP (second audio program) audio status
- Content rating



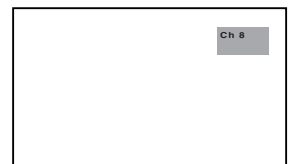
Press **DISPLAY** again to clear the call display.

## NOTE:

- The TV is capable of holding a still video image or On screen display image on your TV screen indefinitely. If you leave the still video image or On screen display image displayed on your TV for an extended period of time, you risk permanent damage to your TV screen.
- When the TV receives an analog signal, **DISPLAY** shows only analog information.
- After 10 seconds, DISPLAY screen will return to normal TV-operation automatically, when a Digital signal is received.  
After 4 seconds, DISPLAY screen will return to normal TV-operation automatically, when a Analog signal is received.

## RECALL

This button allows you to go back to the last channel selected by pressing **RECALL**. Press **RECALL** again to return to the last channel you were watching.



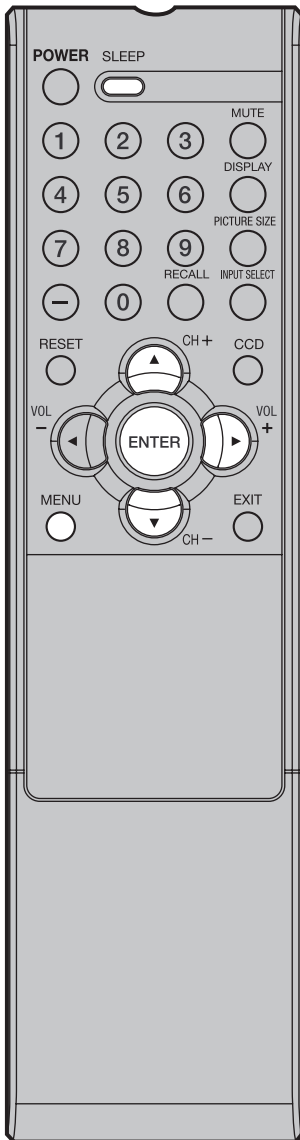
## MUTE

Press **MUTE** to switch off the sound. The TV's sound will be silenced and "MUTE" will briefly appear on the screen. The sound can be switched back on by pressing this button again or the **VOL +** or **-**.



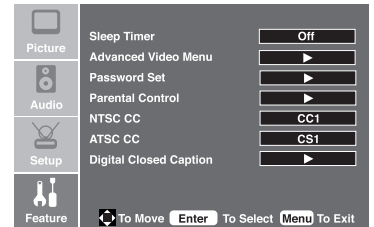
## SLEEP

The sleep timer allows you to set a time when the LCD TV automatically switches to standby.

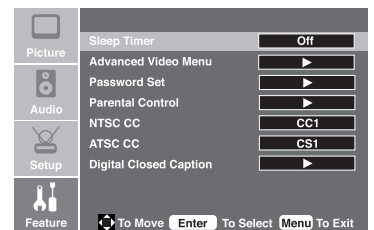


**1** Press **MENU**. The menu screen will appear.

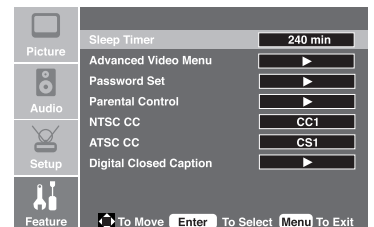
**2** Press **▲** or **▼** to select "Feature" menu, then press **▶**.



**3** Press **▲** or **▼** to select "Sleep Timer".



**4** Press **▶** or **ENTER** repeatedly to select the desired sleep time (Off, 15 min, 30 min, 45 min, 60 min, 90 min, 120 min, 180 min or 240 min).



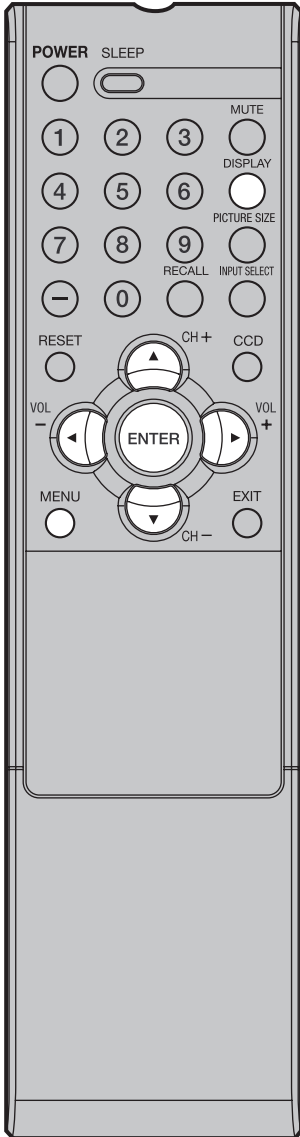
**5** Press **MENU** to return to the normal screen.

### NOTE:

- You can also set the sleep timer by pressing **SLEEP** on the remote control.
- After the sleep time is programmed, the display will appear briefly every ten minutes to remind you that the sleep timer is operating.
- To confirm the sleep timer setting, press **SLEEP** and the remaining time will be displayed for a few seconds.
- To cancel the sleep timer, press **▶** or **ENTER** repeatedly to select "Off" in step 4.

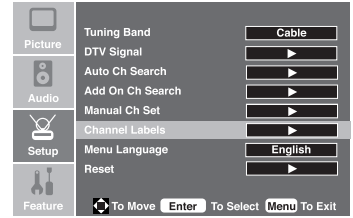
# Labeling channels

Channel labels appear over the channel number display each time you turn on the TV, select a channel, or press **DISPLAY**. You can choose any seven characters to identify a channel.

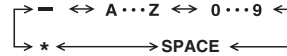


## To create channel labels

- 1 Press **MENU**, then press **▲** or **▼** to select "Setup" menu, then press **▶**.
- 2 Press **▲** or **▼** to select "Channel Labels", then press **▶** or **ENTER**. The "Channel Labels" menu will appear.
- 3 Press **▲** or **▼** to select a channel you want to label.
- 4 Press **◀** or **▶** to enter a character in the first space. Press **▲** or **▼** repeatedly until the character you want appears on the screen.



The characters rotation as follows:



If the character which you desire appears, press **▶**. Repeat this step to enter the rest of the characters. If you would like a blank space in the label name, you must choose the empty space from the list of characters.

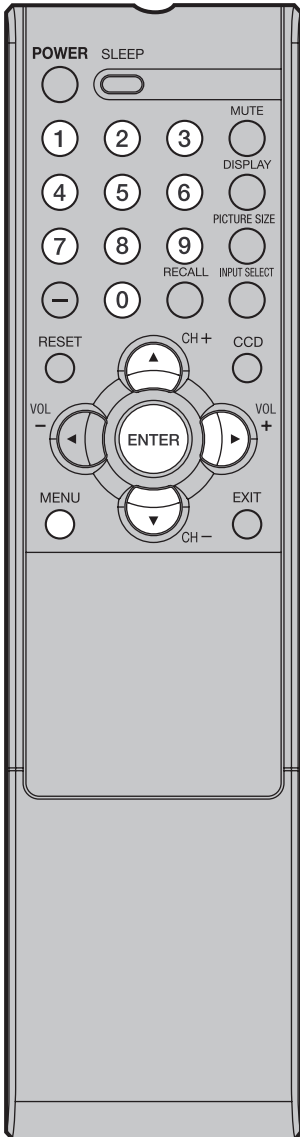
- 5 When you finish inputting the label name, press **MENU** to return to the normal screen.
- 6 Repeat steps 1-5 for other channel. You can assign a label to each channel.



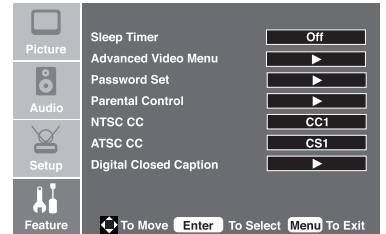
# Setting the V-Chip

An age limitation can be set to restrict children from viewing or hearing violent scenes or pictures that you may choose to exclude. The restriction applies to “TV RATING” and “MPAA” if this data is transmitted. You may set this restriction separately. To use the V-Chip function, you must register a password.

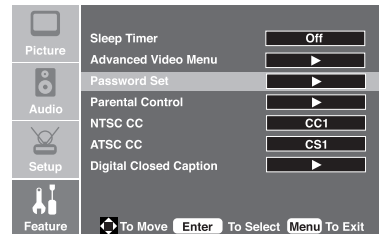
## To register a password



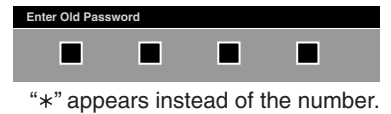
**1** Press **MENU**. The menu screen will appear. Press **▲** or **▼** to select “Feature” menu, then press **▶**.



**2** Press **▲** or **▼** to select “Password Set”, then press **▶** or **ENTER**.



**3** Use **Number buttons(0-9)** to enter your password (The factory default password is “0000”).



**4** Select and enter a password (4 digits) using **Number buttons (0-9)**.



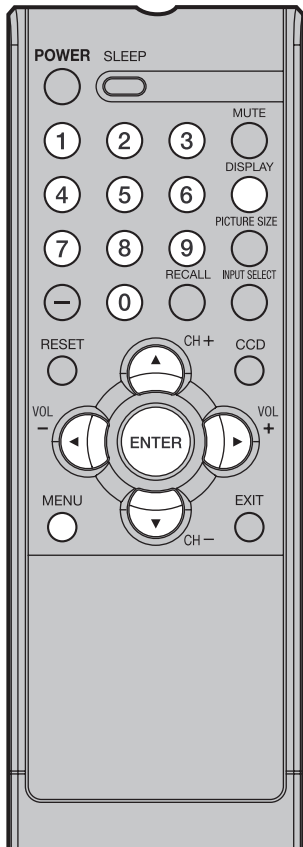
**5** Enter the same password again to confirm. The password is now registered.



### NOTE:

- If you forget the password, contact Customer Service at 1-800-289-0980 for assistance. Your original remote control will be required.
- To avoid forgetting the password, write it down and keep in a safe place.

# Setting the V-Chip



## To use the TV after the TV is protected.

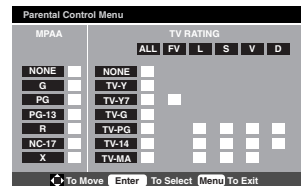
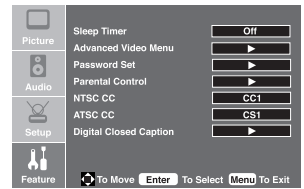
When a program is received that is blocked by the V-Chip, press **DISPLAY** and **MENU** at the same time. The protection will be temporarily overridden. If the TV is turned off, or the channel is changed the V-Chip restriction will be reactivated.

### NOTE:

- The V-Chip function is activated only on programs and input sources that include a rating signal.

## To set the V-Chip

- 1 Press **MENU**. Press **▲** or **▼** to select "Feature" menu, then press **▶**.
- 2 Press **▲** or **▼** to select "Parental Control", then press **▶** or **ENTER**. Use **Number buttons (0-9)** to enter your password. The Parental Control Menu appears.
- 3 Press **▲** or **▼** to select "US Ratings", then press **▶** or **ENTER**.
- 4 Press **▲/▼/◀/▶** to select the desired rating, then press **ENTER**.



### TV RATING

- NONE** : TV RATING is not set
- TV-Y** : All children
- TV-Y7** : 7 years old and above
- TV-G** : General audience
- TV-PG** : Parental guidance
- TV-14** : 14 years old and above
- TV-MA** : 17 years old and above

- FV** (Fantasy Violence)
- L** (Language)
- S** (Sex)
- V** (Violence)
- D** (Dialogue)

### MPAA (Motion Picture Association of America)

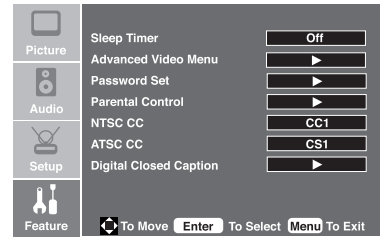
- NONE** : MPAA is not set.
- G** : All ages
- PG** : Parental guidance
- PG-13** : Parental guidance less than 13 years old
- R** : Under 17 years old Parental guidance suggested
- NC-17** : 17 years old and above
- X** : Adult only

- 5 Press **MENU** to return to the normal screen.

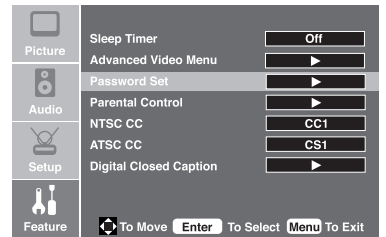
## To change the password

**1** Press **MENU**. The TV menu screen will appear.

**2** Press **▲** or **▼** to select "Feature" menu, then press **▶**.



**3** Press **▲** or **▼** to select "Password Set", then press **▶** or **ENTER**.



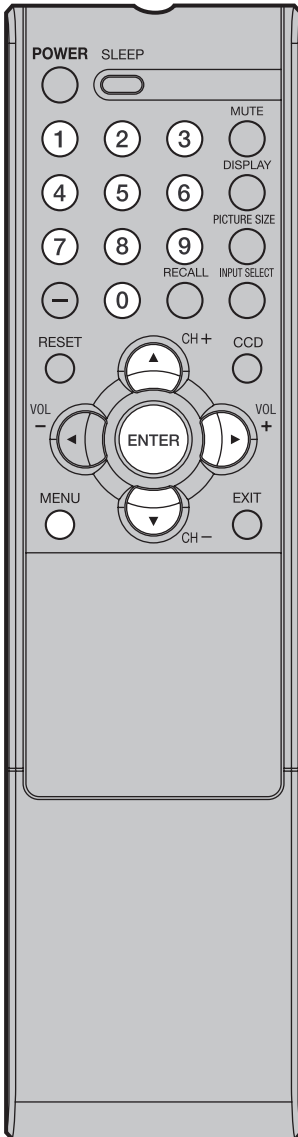
**4** Use **Number buttons (0-9)** to enter your password.



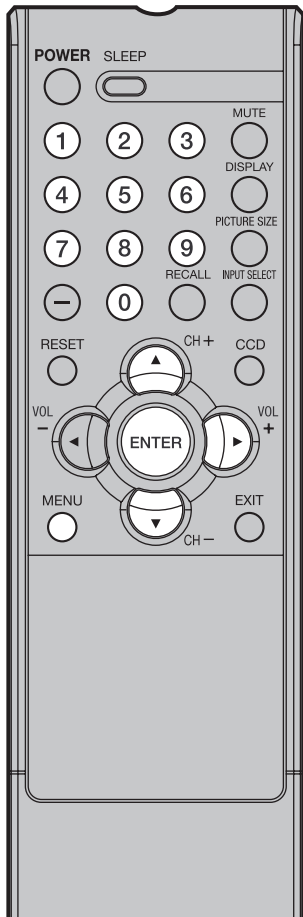
**5** Enter a new password using **Number buttons (0-9)**.



**6** Enter the same password again to confirm. The password is now registered.



# Setting the V-Chip



## NOTE:

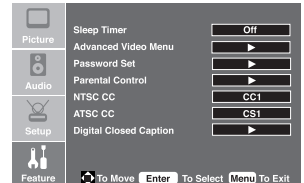
- You can only download the additional V-Chip rating system when your TV is receiving a digital signal.
- When you download the additional rating system, it may take some time for the download to occur.
- The V-Chip rating information and system are not determined or controlled by the TV .
- The standard V-Chip rating system is available whether your TV is receiving a digital signal or not, and will block both analog and digital programs. To set the restriction level using the standard V-Chip rating system, select US Ratings in step 3.
- The downloadable V-Chip rating system is an evolving technology, and availability, content, and format may vary.
- You cannot select this feature if the TV is not receiving a digital signal for the current station.

## Downloading the additional V-Chip rating system

As a supplement to the standard V-Chip rating system, your television will be able to download an additional rating system, if such a system becomes available in the future.

### To download the additional V-Chip rating system (when available)

- 1 Press **MENU** in the digital channel. Press **▲** or **▼** to select “Feature” menu, then press **▶**.



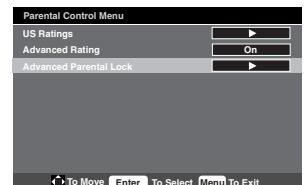
- 2 Press **▲** or **▼** to select “Parental Control”, then press **▶** or **ENTER**. Use **Number buttons (0-9)** to enter your password. The Parental Control Menu appears.



- 3 Press **▲** or **▼** to select “Advanced Rating”, then press **▶** to select “On”. The “Advanced Parental Lock” option appear.



- 4 Press **▲** or **▼** to select “Advanced Parental Lock”, then press **▶** or **ENTER**.



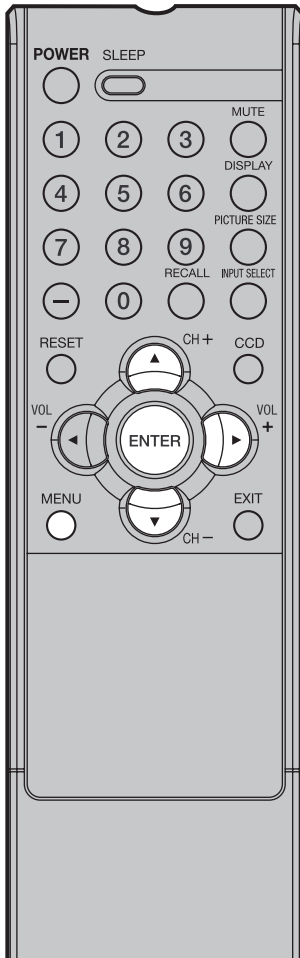
- 5 If the TV is not storing the additional rating system, the TV will begin downloading it, which may take some time to be completed.
- 6 Set your preferred content rating limits for the additional rating system.

## WHAT IS CLOSED CAPTIONING?

This television has the capability to decode and display Closed Captioned television programs. Closed Captioning will display text on the screen for hearing impaired viewers or it will translate and display text in another language.

**Captions:** This Closed Caption Mode will display text on the screen in English or another language. Generally, Closed Captions in English are transmitted on CC1 and Closed Captions in other languages are transmitted on CC2.

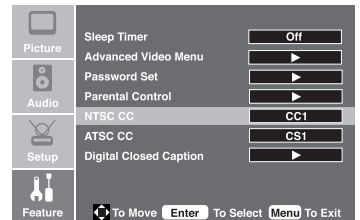
**Text:** The Text Closed Caption Mode will usually fill 1/2 of the screen with a programming schedule or other information.



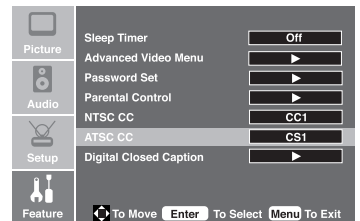
**1** Press **MENU**. Press **▲** or **▼** to select “Feature” menu, then press **▶**.

**2** Press **▲** or **▼** to select “NTSC CC” or “ATSC CC”.

When you select “NTSC CC”, you can choose CC1, CC2, CC3, CC4, TEXT1, TEXT2, TEXT3, TEXT4 and OFF.



When you select “ATSC CC”, you can choose from CS1, CS2, CS3, CS4, CS5, CS6 and OFF.



### NOTE:

- Depending on the broadcast signal, some Analog Captions will function with a Digital broadcast signal.

**3** Press **▶** or **ENTER** to select the desired Closed Caption mode.

### NOTE:

- To turn the Closed Caption feature off, select “OFF”.

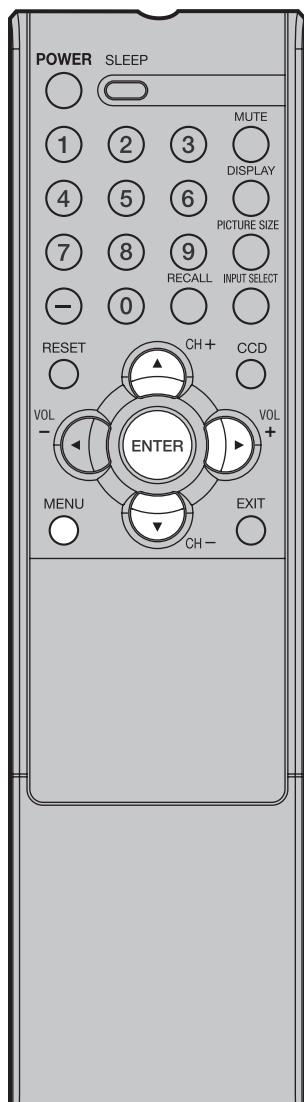
**4** Press **MENU** to return to the normal screen.

### NOTE:

- If the program or video you selected is not closed-captioned, no captions will display on-screen.
- If text is not available in your viewing area, a black rectangle may appear on-screen. If this happens, set the Closed Caption feature to “OFF”.
- When selecting Closed Captions, the captioning will be delayed approx. 10 seconds.
- If no caption signal is received, no captions will appear, but the television will remain in the Caption Mode.
- Misspellings or unusual characters may occasionally appear during Closed Captioning. This is normal with Closed Captioning, especially with live programs. This is because during live programs, captions are also entered live. These transmissions do not allow time for editing.
- When Captions are being displayed, on-screen displays, such as volume and mute may be seen but may interfere with Closed Captions.
- Some cable systems and copy protection systems may interfere with the Closed Captioned signal.
- If using an indoor antenna or if TV reception is very poor, the Closed Caption Decoder may not appear or may appear with strange characters or misspelled words. In this case, adjust the antenna for better reception or use an outdoor antenna.

# CC advanced

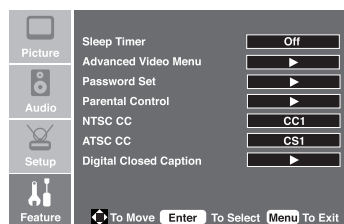
When you have selected **CUSTOM** as the display method, you can adjust the various setting listed below as follows:



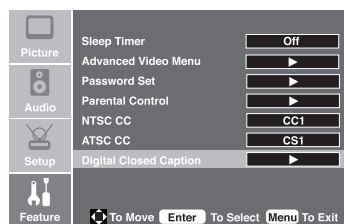
This feature is designed to customize Digital Captions only.

**1** Press **MENU**. The menu screen will appear.

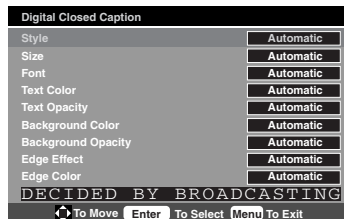
**2** Press **▲** or **▼** to select “Feature” menu, then press **▶**.



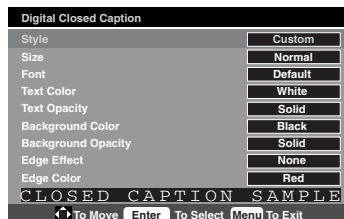
**3** Press **▲** or **▼** to select “Digital Closed Caption”, then press **▶** or **ENTER**. The Digital Closed Caption menu will appear.



**4** Press **▲** or **▼** to select “Style”, then press **▶** or **ENTER** to select “Custom”.



**5** Press **▲** or **▼** to select desired setting, then press **ENTER**.



You can select from among the following items and parameters.

**Size:** Small, Standard, Large

**Font:** Default, Font 1, Font 2, Font 3, Font 4, Font 5, Font 6, Font 7,

**Text Color:** Red, Green, Blue, Yellow, Magenta, Cyan, Black, White

**Text Opacity:** Transparent, Translucent, Solid, Flashing

**Background Color:** Auto, Black, White, Red, Green, Blue, Yellow, Magenta, Cyan

**Background Opacity:** Transparent, Translucent, Solid, Flashing

**Edge Effect:** None, Raised, Depressed, Uniform, Left Shadow, Right Shadow

**Edge Color:** Red, Green, Blue, Yellow, Magenta, Cyan, Black, White

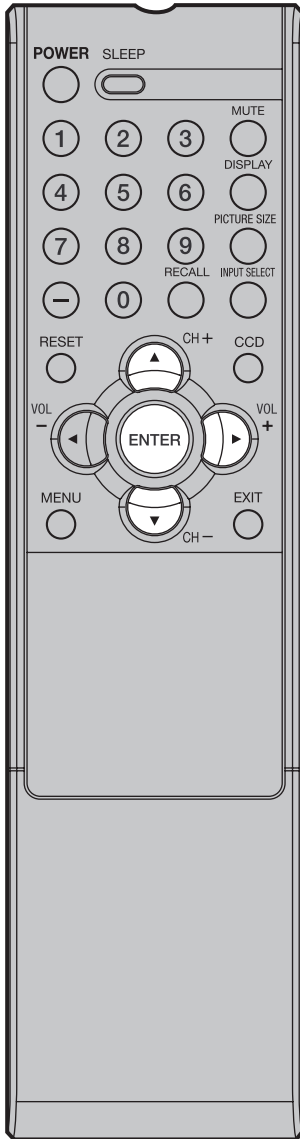
## NOTE:

- Do not set the Closed Caption “Text Color” and “Background Color” as the same color or you will not be able to see the text.
- Do not set both the “Text Opacity” and the “Background Opacity” to “Transparent” or you will not be able to see the text.

**6** Press **MENU** to return to the normal screen.

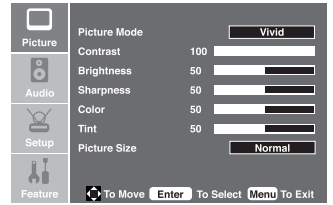
# Setting the picture size

You can view 480i and 480p format programs in a variety of picture sizes— Normal, Zoom, Wide and Cinema.

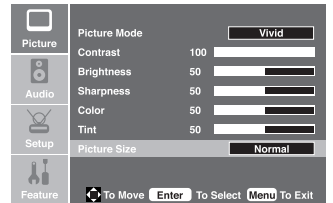


## Selecting the picture size

1 Press **MENU**. Press **▲** or **▼** to select “Picture” menu, then press **▶**.



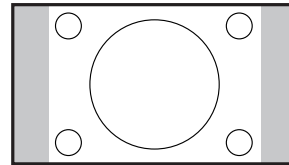
2 Press **▲** or **▼** to select “Picture Size”, then press **▶** or **ENTER** to select the desired picture size, as described below and on the next page.



3 Press **MENU** to return to the normal screen.

## Normal picture size

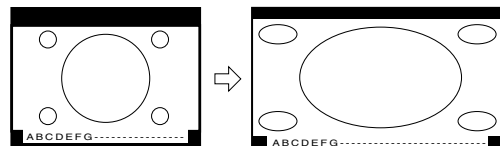
In some cases, this image will display the size of standard 4:3 with a gray side bar.



## Zoom picture size (for letter box programs with subtitles)

To fill the width of the screen, it is extended horizontally. However, it is only slightly extended at the top and the bottom.

The top and bottom edges of the picture may be hidden.



### NOTE:

- Some High Definition and/or Digital broadcasts may not allow you to change the picture size.

# Setting the picture size

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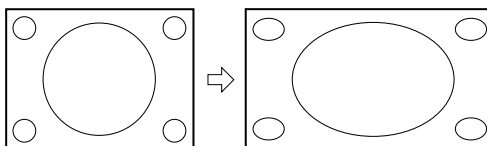
## NOTE:

- In COMPONENT mode with a scanning rate of 720p or 1080i, only the Normal and Cinema picture size features are available.
- In PC mode, only the Normal picture size features are available. However, when in VGA, SVGA, XGA or SXGA modes, Wide picture size format can also be selected.
- In Cinema picture size, some of the on screen display items may be positioned off the visible portion of the screen.

## Wide picture size (for 4:3 format programs)

To fill the screen, the right and left edges are extended, however; the center of the picture remains near its former ratio.

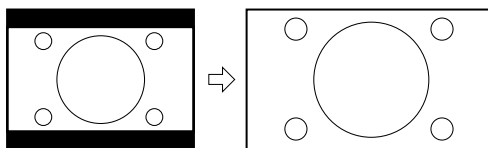
The top and bottom edges of the picture may be hidden.



## Cinema picture size (for letter box programs)

The entire picture is uniformly enlarged—it is stretched the same amount both wider and taller (retains its original proportion).

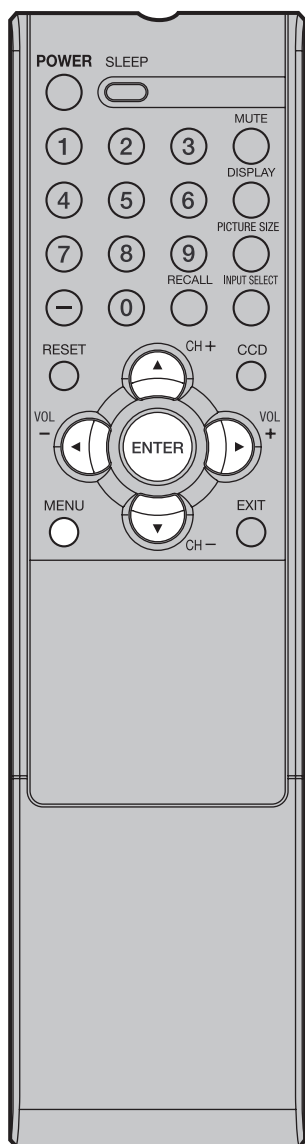
The top and bottom edges of the picture may be hidden.





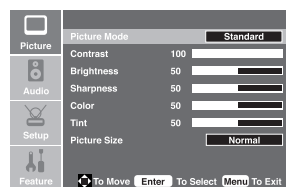
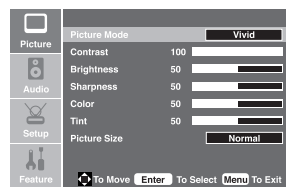
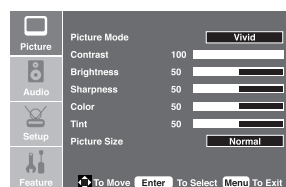
# Adjusting the picture preference/Picture control adjustment

You can select four picture modes—Vivid, Standard, Movie and User—as described in the following table:



## Adjusting the picture preference

- 1 Press **MENU**. Then press **▲** or **▼** to select “Picture” menu, then press **▶**.
- 2 Press **▲** or **▼** to select “Picture Mode”.
- 3 Press **▶** or **ENTER** to select the item you want to adjust.

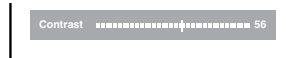
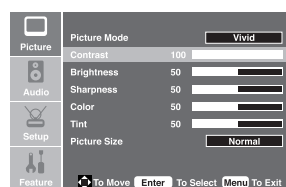
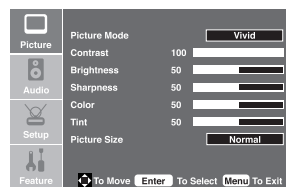


Mode	Picture Quality
<b>Vivid</b>	Bright and dynamic picture (factory-set)
<b>Standard</b>	Standard picture quality (factory-set)
<b>Movie</b>	Movie-like picture setting (factory-set)
<b>User</b>	Your personal preferences (set by you; see “Picture control adjustment” below).

- 4 After your desired setting, press **MENU** to return to the normal screen.

## Picture control adjustment

- 1 Press **MENU**. Then press **▲** or **▼** to select “Picture” menu, then press **▶**.
- 2 Press **▲** or **▼** to select the item you want to adjust, then press **▶** or **ENTER**. Press **◀** or **▶** to adjust the setting.



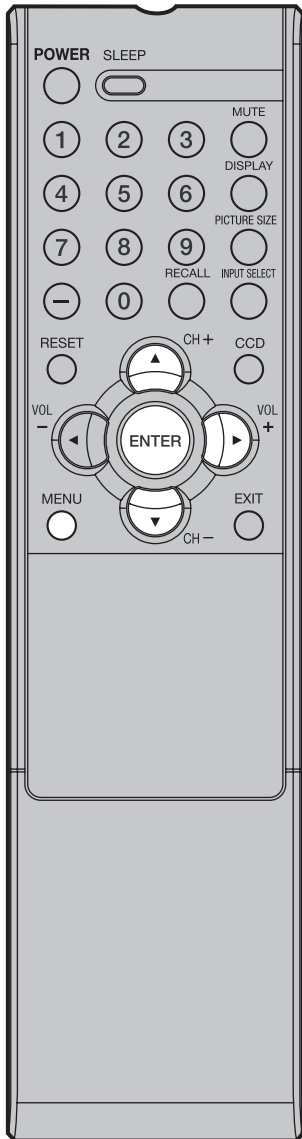
	◀	▶
<b>Contrast</b>	decrease contrast	increase contrast
<b>Brightness</b>	decrease brightness	increase brightness
<b>Sharpness</b>	makes picture softer	makes picture clearer
<b>Color</b>	be pale color	be brilliant color
<b>Tint</b>	be reddish color	be greenish color

### NOTE:

- The **CONTRAST** default setting is set to maximum at the factory.

- 3 After your desired setting, press **MENU** to return to the normal screen.

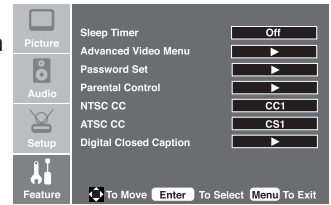
# DNR/Selecting the color temperature



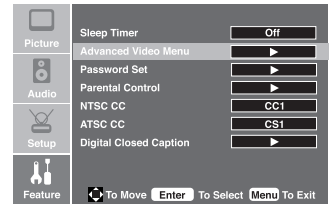
## DNR

DNR (Digital Noise Reduction) can reduce the roughness of the picture.

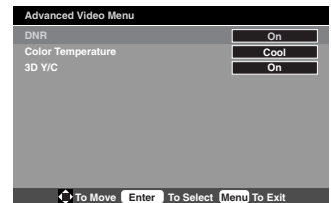
1 Press **MENU**. Then press **▲** or **▼** to select “Feature” menu, then press **▶**.



2 Press **▲** or **▼** to select “Advanced Video Menu”, then press **▶** or **ENTER**.



3 Press **▲** or **▼** to select “DNR”. Press **▶** or **ENTER** to select “On” or “Off”.

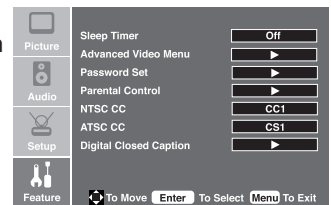


4 Press **MENU** to return to the normal screen.

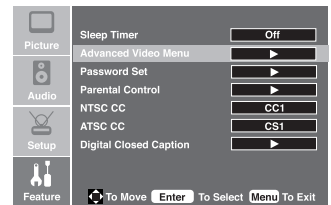
## Selecting the color temperature

Change the picture quality by selecting from three preset color temperatures—Cool, Normal, and Warm:

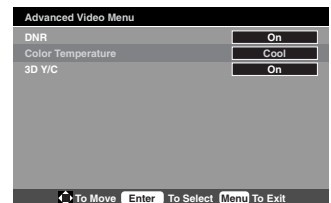
1 Press **MENU**. Then press **▲** or **▼** to select “Feature” menu, then press **▶**.



2 Press **▲** or **▼** to select “Advanced Video Menu”, then press **▶** or **ENTER**.



3 Press **▲** or **▼** to select “Color Temperature”. Press **▶** or **ENTER** to select the mode you prefer.



Mode	Picture Quality
<b>Cool</b>	Blueish
<b>Normal</b>	Neutral
<b>Warm</b>	Reddish

### NOTE:

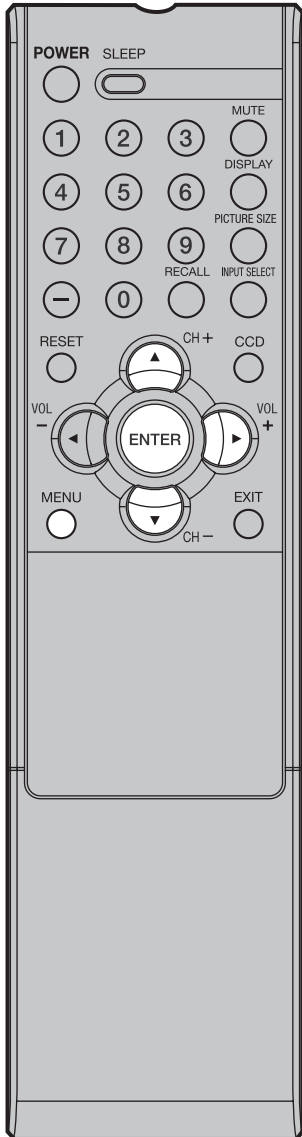
- In COMPONENT mode, the “DNR” option cannot be selected.

4 Press **MENU** to return to the normal screen.

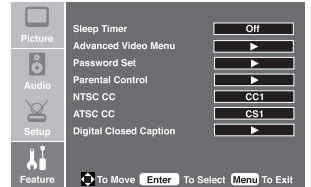
# Setting the 3D Y/C

## Setting the 3D Y/C

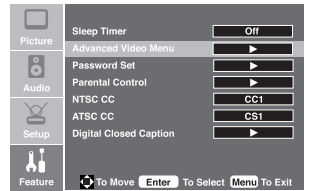
3D Y/C reduces visible interference in your TV picture. This is useful when receiving a broadcast with a weak signal (especially a Cable channel) or playing a video cassette or disc damaged by repeated use.



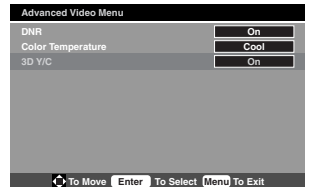
1 Press **MENU**. Then press **▲** or **▼** to select “Feature” menu, then press **▶**.



2 Press **▲** or **▼** to select “Advanced Video Menu”, then press **▶** or **ENTER**.



3 Press **▲** or **▼** to select “3D Y/C”. Press **▶** or **ENTER** to select “On” or “Off”.

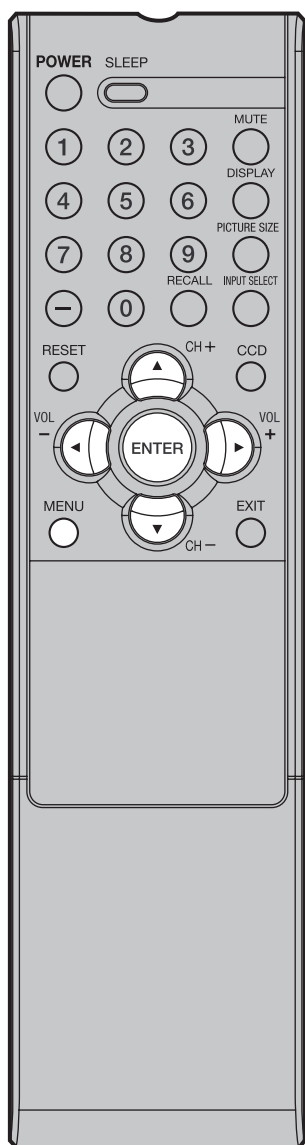


4 Press **MENU** to return to the normal screen.

# Selecting Stereo/Second Audio Program (SAP)/ Sound control adjustment

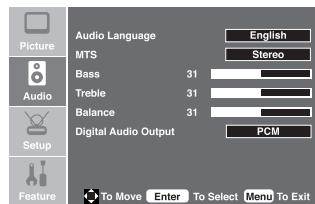
The multi-channel TV sound (MTS) feature provides high-fidelity stereo sound. MTS also can transmit a second audio program (SAP) containing a second language or other audio information.

When the TV receives a stereo or SAP broadcast, the word "Stereo" or "SAP" displays on-screen every time you turn the TV on, change the channel, or press DISPLAY.

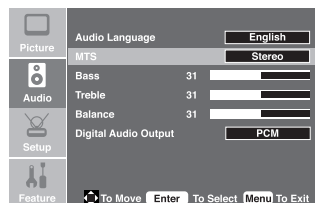


## Selecting Stereo/Second Audio Program (SAP)

1 Press **MENU**. Then press **▲** or **▼** to select "Audio" menu, then press **▶**.



2 Press **▲** or **▼** to select "MTS", then press **▶** or **ENTER** to select "Stereo".



3 Press **MENU** to return to the normal screen.

### NOTE:

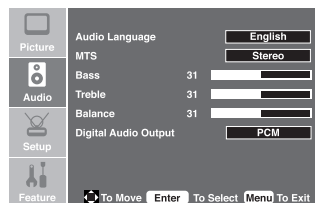
- Generally you can leave your TV in stereo mode because the TV automatically outputs the type of sound being broadcast (stereo or mono).
- If the stereo sound is noisy, select Mono to reduce the noise.

## To listen to a second audio program (SAP)

Press **▶** or **ENTER** to select "SAP" in step 2 above. The TV speakers will output the second audio program instead of normal audio.

## Sound control adjustment

1 Press **MENU**. Then press **▲** or **▼** to select "Audio" menu, then press **▶**.

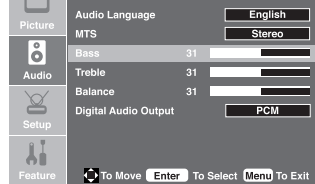


2 Press **▲** or **▼** to select the item you want to adjust, then press **▶** or **ENTER**.

**Bass:** Press **◀** or **▶** to adjust the bass sound.

**Treble:** Press **◀** or **▶** to adjust the treble sound.

**Balance:** Press **◀** or **▶** to obtain an equal sound level from both speakers.



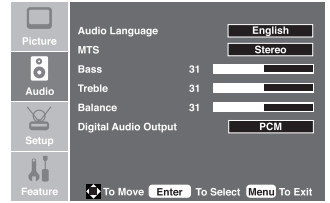
3 After your desired setting, press **MENU** to return to the normal screen.

# Selecting the audio language/ Selecting the digital output

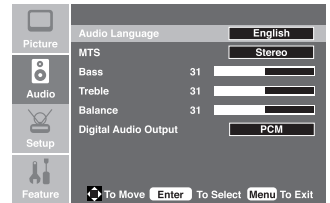
## Selecting the audio language

When two or more audio languages are included in a digital signal, you can select one of the audio language.

- 1 Press **MENU**. Then press **▲** or **▼** to select “Audio” menu, then press **▶**.



- 2 Press **▲** or **▼** to select “Audio Language”. Then press **▶** or **ENTER** to select your desired language.

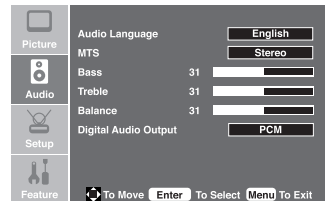


- 3 Press **MENU** to return to the normal screen.

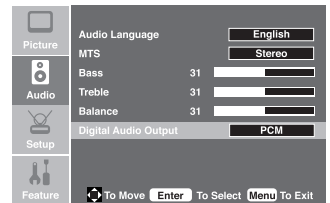
## Selecting the digital output

You can choose the format of the digital audio output signal.

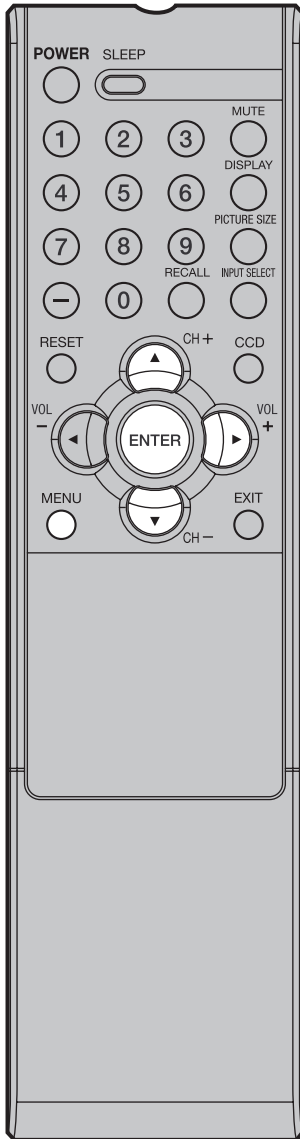
- 1 Press **MENU**. Then press **▲** or **▼** to select “Audio” menu, then press **▶**.



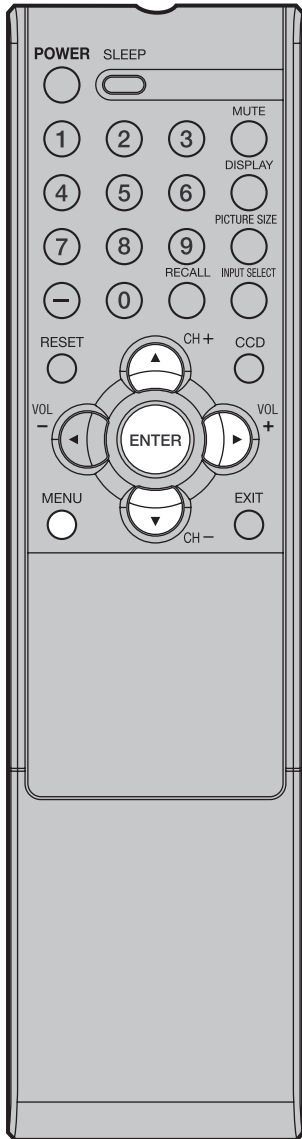
- 2 Press **▲** or **▼** to select “Digital Audio Output”, then press **▶** or **ENTER** to select “PCM” or “RAW”.



- 3 Press **MENU** to return to the normal screen.



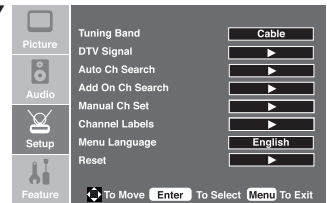
# Checking the Digital-signal strength/ Resetting your settings



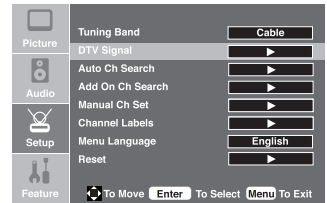
## Checking the Digital-signal strength

This TV will allow you to view the digital signal meter for digital channels.

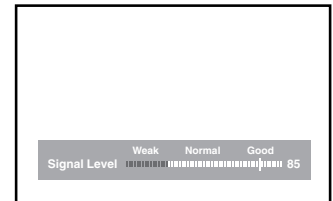
- 1 Press **MENU**. Then press **▲** or **▼** to select “Setup” menu, then press **▶**.



- 2 Press **▲** or **▼** to select “DTV Signal”.



- 3 Press **▶** or **ENTER** to check the Digital-signal strength.

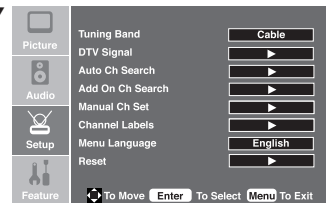


- 4 Press **MENU** to return to the normal screen.

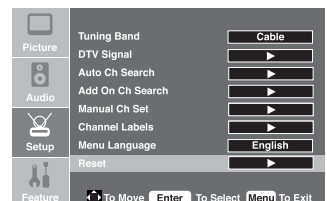
## Resetting your settings

The Reset function returns your settings to the factory settings.

- 1 Press **MENU**. Then press **▲** or **▼** to select “Setup” menu, then press **▶**.



- 2 Press **▲** or **▼** to select “Reset”.



- 3 Press **▶** or **ENTER** to return your settings to the factory settings.

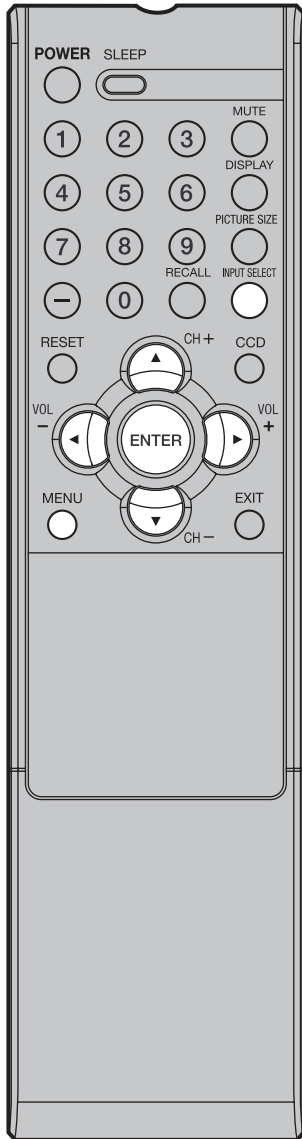
- 4 Press **MENU** to return to the normal screen.

### NOTE:

- Signal meter feature is not available for analog channels.
- After 180 seconds, SIGNAL METER screen will return to normal TV-operation automatically.

# Picture control adjustment in the Component and PC mode

You can adjust to optimize the performance of the TV in the Component and PC mode.



## NOTE:

- If no buttons are pressed for more than approx. 30 seconds, the Menu-screen will return to normal Monitor-screen automatically.
- The "Component Set" and "PC Set" settings are not effective for normal mode, or other input modes.

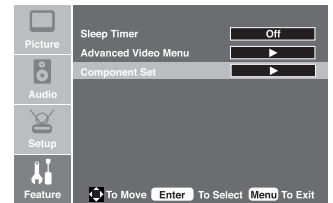
**Example:** Adjust the H-Pos in the component mode.

**1** Press **INPUT SELECT** repeatedly to select the component mode.

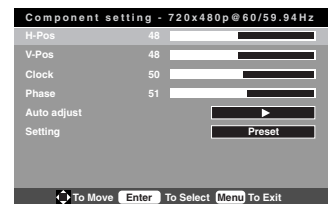
**2** Press **MENU** during the component mode. Then press **▲** or **▼** to select "Feature" menu, then press **▶**.



**3** Press **▲** or **▼** to select "Component Set", then press **▶** or **ENTER**.



**4** Press **▲** or **▼** to select "H-Pos", then press **▶** or **ENTER**.



**5** Press **◀** or **▶** to adjust the setting.



- H-Pos:** To adjust the horizontal position of the image on the PC Monitor-screen.
- V-Pos:** To adjust the vertical position of the image on the PC Monitor-screen.
- Clock:** To minimize any vertical bars or stripes visible on the screen background.
- Phase:** This must be adjusted after the frequency of your PC has been set to 60hz to optimize picture quality (page 16).
- Auto adjust (PC Setting only):** To optimize "H-Pos", "V-Pos", "Clock" and "Phase" automatically.
- Setting:** To return your settings to the factory settings.

**6** Press **MENU** to return to the normal screen.

# Reception disturbances

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Most types of television interference can be remedied by adjusting the height and position of the VHF/UHF antenna. Outdoor antennas are recommended for best results. The most common types of television interference are shown below. If one of these symptoms appear when the TV is connected to a Cable TV system, the disturbance may be caused by the local Cable TV company broadcast.

## IGNITION

Black spots or horizontal streaks may appear, the picture may flutter or drift. Usually caused by interference from automobile ignition systems, neon lamps or AC powered tools and appliances such as drills or hair dryers.



## GHOSTS

Ghosts are caused by the television signal following two paths. One is the direct path and the other is reflected by tall buildings, hills or other large objects. Changing the direction or position of the antenna may improve the reception.



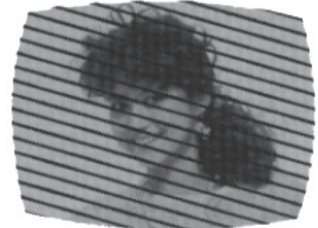
## SNOW

If the TV is located far from the TV station, in a fringe reception area where the signal is weak, small dots may appear in the picture. If the signal is extremely weak, the installation of a larger external antenna may be necessary.



## RADIO FREQUENCY INTERFERENCE (RFI)

Caused by two-way radios, this type of interference produces moving ripples or diagonal streaks in the picture. Some cases may cause a loss of contrast in the picture. Changing the direction and position of the antenna or installing an RFI filter may improve the picture.



## PICTURE SIZE VARIATION

A slight picture size variation is normal when you adjust the CONTRAST or BRIGHTNESS settings.



## CARE AND MAINTENANCE

To prevent fire or shock hazard, disconnect the TV from the power source before cleaning. The finish on the cabinet may be cleaned with mild soap and a soft, damp cloth and cared for as other furniture. Use caution when cleaning or wiping the plastic parts.



# Troubleshooting

Use the following checklist for troubleshooting if you have problems with your LCD TV. Consult your local dealer or service outlet if problems persist. Be sure all connections are properly made when using with other units.

SYMPTOMS	POSSIBLE SOLUTIONS
TV does not operate.	<ul style="list-style-type: none"> <li>• Make sure the power cord is plugged in.</li> <li>• Try another AC outlet.</li> <li>• Power is off, check fuse or circuit breaker.</li> <li>• Unplug unit for an hour, then plug it back in.</li> </ul>
Poor sound or no sound.	<ul style="list-style-type: none"> <li>• Station or CABLE experiencing problems, tune to another station.</li> <li>• Check sound adjustments (Volume and Mute).</li> <li>• Check for sources of possible interference.</li> </ul>
Poor picture or no picture.	<ul style="list-style-type: none"> <li>• Station or CABLE experiencing problems, tune to another station.</li> <li>• Make sure channels are set into memory.</li> <li>• Check antenna or CABLE connections, adjust antenna.</li> <li>• Check for sources of possible interference.</li> <li>• Check picture control adjustments.</li> </ul>
Poor reception on some channels.	<ul style="list-style-type: none"> <li>• Station or CABLE experiencing problems, tune to another station.</li> <li>• Make sure channels are set into memory.</li> <li>• Station is weak, adjust antenna to receive desired station.</li> <li>• Check for sources of possible interference.</li> </ul>
Poor color or no color.	<ul style="list-style-type: none"> <li>• Station or CABLE experiencing problems, tune to another station.</li> <li>• Make sure channels are set into memory.</li> <li>• Check picture control adjustments.</li> <li>• Check antenna or CABLE connections, adjust antenna.</li> <li>• Check for sources of possible interference.</li> </ul>
Picture wobbles or drifts.	<ul style="list-style-type: none"> <li>• Station or CABLE experiencing problems, tune to another station.</li> <li>• Make sure channels are set into memory.</li> <li>• CABLE company is scrambling signal.</li> <li>• Adjust antenna.</li> </ul>
Digital broadcasting screen problem.	<ul style="list-style-type: none"> <li>• Check digital signal strength.</li> </ul>

SYMPTOMS	POSSIBLE SOLUTIONS
No CATV reception.	<ul style="list-style-type: none"> <li>• Check all CABLE connections.</li> <li>• Set Air/Cable menu option to the Cable mode.</li> <li>• Station or CABLE system problems, try another station.</li> </ul>
Horizontal or diagonal bars on screen.	<ul style="list-style-type: none"> <li>• Check antenna connections, adjust or re-direct antenna.</li> <li>• Check for sources of possible interference.</li> </ul>
No reception above channel 13.	<ul style="list-style-type: none"> <li>• Make sure Air/Cable menu option is in the appropriate mode.</li> <li>• If using antenna, check UHF antenna connections.</li> </ul>
No Remote operation.	<ul style="list-style-type: none"> <li>• Batteries are weak, dead or inserted incorrectly.</li> <li>• Remote is out of range, move closer to TV (within 15 feet).</li> <li>• Make sure Remote is aimed at sensor.</li> <li>• Confirm there are no obstructions between the Remote and the TV.</li> <li>• Make sure the power cord is plugged in.</li> </ul>
TV shuts off.	<ul style="list-style-type: none"> <li>• Sleep Timer is set.</li> <li>• Power interrupted.</li> </ul>
Closed - Caption is not activated.	<ul style="list-style-type: none"> <li>• TV station experiencing problems or program tuned is not closed captioned. Try another channel.</li> <li>• Check CABLE connection or VHF/UHF antenna, reposition or rotate antenna.</li> <li>• Set closed caption decoder in the menu.</li> </ul>
TV is not shown in your language.	<ul style="list-style-type: none"> <li>• Select proper language in the menu options.</li> </ul>



FOR CUSTOMER SERVICE, ADDITIONAL SET-UP OR OPERATING ASSISTANCE PLEASE CALL:

1-800-289-0980

**WHEN CALLING CUSTOMER SERVICE – PLEASE HAVE YOUR MODEL NUMBER READY**

OR WRITE TO:  
**ORION SALES, INC.**  
 3471 N. UNION DR.  
 OLNEY, ILLINOIS 62450

FOR INFORMATION ON OUR OTHER PRODUCTS, PLEASE VISIT OUR WEBSITE AT  
[www.orionsalesinc.com](http://www.orionsalesinc.com)

# Specifications

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Power supply:	AC 120 V 60 Hz
Power consumption:	Operation: 55 W Stand by: 1 W
Weight:	13.5 lbs (6.1 kg)
Dimensions:	Width: 19 inches (483 mm) Height: 15-9/16 inches (396 mm) Depth: 7-1/2 inches (190 mm)
Inputs:	VIDEO: 1 V (p-p)/75 ohms AUDIO: -8 dBm/50k ohms S-VIDEO: Y: 1 V (p-p), 75 ohms C: 0.286 V (p-p), 75 ohms COMPONENT: Y: 1 V (p-p), 75 ohms PR: 0.7 V (p-p), 75 ohms PB: 0.7 V (p-p), 75 ohms
Digital audio out:	0.5 Vp-p 75 ohms terminated
PC Monitor input:	Mini-Dsub 15pin x 1
Type:	18.95 inches (481.4 mm diagonal)
Number of Pixels:	1440 (H) x 900 (V)
Viewing angle:	Left/Right: 80/80 degree Up/Down: 80/80 degree
Antenna input:	VHF/UHF/CABLE In 75 ohm coaxial
Tuner type:	NTSC standard ATSC standard (8VSB), QAM
Receiving channels:	VHF 2-13 UHF 14-69 CABLE 14-36 (A)-(W) 37-59 (AA)-(WW) 60-85 (AAA)-(ZZZ) 86-94 (86)-(94) 95-99 (A-5)-(A-1) 100-125 (100)-(125) 01 (5A)
Speaker:	1-3/16 inches (30 mm) x 2-13/16 inches (71 mm), 8 ohms x 2
Sound output power:	1.5 W + 1.5 W
<b>ACCESSORIES:</b>	Remote control Batteries (UM-3) x 2 AC Cord

**Designs and specifications are subject to change without notice.**



## LIMITED WARRANTY

### 19" WIDE LCD TELEVISION

ORION warrants this product to be free from manufacturing defects in material and workmanship under normal use and conditions for a period of 90 days from date of original purchase in the United States.

Should service be necessary under this warranty for any reason due to a manufacturing defect or malfunction during the first 90 days from date of original purchase, ORION will provide carry-in service only by an ORION authorized Independent Service Center at no charge. Also, if an original part fails due to manufacturing defect in material and workmanship within one year from date of original purchase we will replace the defective part, provided the defect or malfunction is verified along with dated proof of purchase.

There are ORION authorized Independent Service Centers located throughout the country. For the one nearest you, DIAL TOLL FREE: 1-800-289-0980 or visit our website at [www.orionsalesinc.com](http://www.orionsalesinc.com). ORION will not be liable for damages incurred in shipment of the unit. If there are no ORION authorized Independent Service Centers in your area please call - 1-888-296-7466 for assistance.

**Note: This warranty is void if the product is:**

- (a) Damaged through negligence, misuse, abuse, or accident.
- (b) Used in a commercial application or rentals.
- (c) Modified or repaired by anyone other than an Independent Service Center authorized by ORION to effect warranty repairs to the class of product or by the ORION Factory Service Center.
- (d) Damaged because it is improperly connected to the equipment of other manufacturers.

**This warranty does not cover:**

- (a) Damage to equipment not properly connected to the product.
- (b) Costs incurred in the shipping of the product to an ORION authorized Independent Service Center or ORION Factory Service Center.
- (c) Damage or improper operation of unit caused by customer abuse, misuse, negligence, or failure to follow operating instructions provided with the product.
- (d) Ordinary adjustments to the product which can be performed by customer as outlined in the owner's manual.
- (e) Signal reception problems caused by external antenna or cable systems.

THIS WARRANTY IS NON TRANSFERABLE AND APPLIES ONLY TO THE ORIGINAL PURCHASER AND DOES NOT EXTEND TO SUBSEQUENT OWNERS OF THE PRODUCT. ANY APPLICABLE IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED IN DURATION TO A PERIOD OF THE EXPRESS WARRANTY AS PROVIDED HEREIN BEGINNING WITH THE DATE OF ORIGINAL PURCHASE AT RETAIL AND NO WARRANTIES, WHETHER EXPRESS OR IMPLIED SHALL APPLY TO THIS PRODUCT THEREAFTER. ORION MAKES NO WARRANTY AS TO THE FITNESS OF THE PRODUCT FOR ANY PARTICULAR PURPOSE AND USE.

UNDER NO CIRCUMSTANCES SHALL ORION BE LIABLE FOR ANY LOSS, DIRECT, INDIRECT, INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGE ARISING OUT OF OR IN CONNECTION WITH THE USE OF THIS PRODUCT.

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